

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

PO No	Supplier	Line Item No	Re No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Uni
	ACI001-VC	1	1	Net 30	M304516GA  H  Material  Not 900d	304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-5-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				96	2/12/2018	96	,	S042196	Stock	2/13/2018	\$ 6.51 / sf
		2			M304S18GA	304/316 .050 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240				256		256	1	S042197	Stock	2/13/2018	\$ 5.36 / sf
7.		-3			M304S20GA F	304/316 .040 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				96		96		S042198 S	Stock 2	2/13/2018	\$ 3.91 / sf = -
		5		jiisti	V	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				2	2/12/2018	96	S	60421 <u>9</u> 9 S	Stock 2	/13/2018 5	3.66 / sf
		6			0	6061-T6 .063 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						96	S	042200 S	tock 2/	13/2018 \$	5.64 / sf
		7		M		6061-T651 Sheet 0.250"" Thick Plate x 6.250"" Wide				6		6	So	042201 St	ock 2/1	3/2018 S	16.51 / ft
		8		M	1 6 6 4 4 0	5661-76 Bar 1.00 X 4.00 : MATERIAL: 6061- 76/T651/T6510/T6511/T62 LLUMINUM BAR PER 02-A-225/8 OR AMS-0Q225/8 OR AMS 117/4128/4115/4116 OR 10-A-200/8 OR AMS-QQ200/8 OR AMS 4160  R ASTM B211 OR STM B221 receive ft			v	12		12	50	4220Z St	ock 2/1	3/2018 S	13.25/ft
3	*	9		M6	TI AI O A- 41 QC A- OF	06176 Bar 1.000 X 8.000 MATERIAL: 6061- 5/7651/76510/76511/762 LUMINUM BAR PER Q-A-225/8 OR AMS-QQ- 225/8 OR AMS 1/7/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR 6TM B221 receive fi						12	\$04	12203 Sto	ock 2/13	3/2018 S 2	4.99 / ft
	1			Med	T6. AL QC A-2 411 QQ A-2 OR	61T6 Bar 1.00 X 6.00 : XTERIAL: 6061- /T651/T6510/T6511/T62 UMINUM BAR PER 2-A-225/8 OR AMS-QQ- 125/8 OR AMS 17/4128/4115/4116 OR 1-A-200/8 OR AMS-QQ- 00/8 OR AMS 4160 ASTM B211 OR TM B221 receive ft				36		36	5042	2204 Stor	ck 2/13/	2018 S 19	45 / ft
	1:	3	l	M304	B1.000X2.500 ( 304 MA' SS SS   A27	BBAT 1.000 X 2.500"": TERIAL: AISI 304/316 BAR OR AISI 304/316 PLATE AS PER ASTM 6 OR ASTM A240 TE: AISI 303 NOT DEPTABLE receive ft				12		12	5042	205 Stoc	k 2/13/2	2018 S 30.2	26 / ft

PO No S	upplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/U
4		14	,		M304B2.500X02.500	304 Bar 2.500 X 2.500"": MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft						13		S042206	Stock	2/13/2018	\$ 80.75 /
		15				304 Bar 0.625 X 4.000"* : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				4		4		5042207	Stock	2/13/2018	\$ 48.11 /
						MT-4140 QT-R1.375 : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT DR ASTM 4142 QT				20	2/14/2018	24	s	042208	tock 2	/13/2018	5 9.39 / ft
		17		1	/303R0.250	303 Round Bar 0.250""				12 2	/12/2018	12	i st	042209 S	tock 2	13/2018 S	0.57 / ft
ć		18		N	M 66 Tri S Pi O 01 41	06176 Sq Tube 1.250 X .250 X .120W : 1ATERIAL: 6061-T6 OR 061- 651/T6510/T6511/T62 QUARE TUBING AS ER AMS-QQ-A-225/8 R AMS 117/4128/4115/4116 OR ER AMS-QQ-A-200/8 R AMS 4160 receive ft				20		20	50	42210 5	tock 2/	13/2018 S	1.46 / ft
	1	9		Ma	AL PE	24-T3 .040 Sheet : ATERIAL: 2024-T3 UMINUM SHEET AS 6R QQ-A-250/4 OR 15-QQ-A-250/4 OR 15 4037 OR ASTM				48		48	J 504	2211 Sto	ock 2/1	3/2018 \$ 5	.60 / sf
	20			M1	1.00 101 M10 MIL	18-1025 Round Bar 0 : MATERIAL: AISI 8-1025 ROUND BAR 010S20GA AS PER -S-7097 OR ASTM 18 receive ft				20		18	L \$042	221 <b>2</b> Sto	Ck 2/13	/2018 S 2.	67 / ft
	21			MT-	&Ter	4140 Quenched mpered Steel Round 1.000"" Dia.				8		8	i S042	213 Stoc	ck 2/13/	2018 S 4.7	'9 / ft
	22			MT-4	&Ter	4140 Quenched  mpered Steel Round  0.625" Dia.				90 2/14	/2018	90	50422	214 Stoc	k 2/13/	2018 \$ 2.8	8 / ft
	24				Steel	B Seamless Alloy I Round Tubing "dia. x 0.085"" Wall				20		23	50422	15 Stoc	k 2/13/2	018 \$ 3.60	) / ft

Plex 2/14/2018 10:11 AM Dart Dubois Pascal



DART AEROSPACE LTD

Shipped to

, Ontario,

HAWKESBURY, Ontario, K6A 1K7

Instruction

F-M

**Delivery Route** 

Weight

Qty

C/M

CMD

EXP

B/0

Z

Internal Use Only S

TUO

252.00

96.00

PI2\_\$CLB

Att : CHANTAL LAVOIE Tél.: 613-632-5200

1270 , ABERDEEN ST.

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Delivery date

Your order No

Processed by

CLI0001056

Customer N°

2018/02/08 2018/02/13

03983 R 638983

Josianne Bourdon

OUELLETTE VALLEYFIELD

Salesman

Carrier

Net 30 Days

Page

2 SHEET SS 18G SS304-2B (4 X 8)

3 X 4' X 8' HEAT

FESS-18G483042B

3425

537.60

256.00

PI2\_\$CLB

34

1600

1 SHEET SS 16G SS304-2B (4 X 8)

**Product Description** 

FESS-16G483042B

3419

ω

SHEET SS 20G SS304-2B (4 X 8)

8 X 4' X 8' HEAT

FESS-20G483042B

3430

150.72

96.00

PI2\_\$CLB

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 $\approx$ 

4 ALU SHEET .040 (18G) 6061-T6 (4 X 12)

FEAL-0404126061

3121

54.05

96.00

PI2\_\$CLB

2 X 4' X 12' HEAT

3 X 4'X 8' HEAT

**Credit Terme** 

PCS NB

4/1/2

27

FEB 11 2018

NIR: R-109516-6



75

Next Page...



DART AEROSPACE LTD

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

F-N

**Delivery Route** 

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Customer N°

Delivery date 2018/02/13

2018/02/08 CLI0001056

03983

Josianne Bourdon

Processed by Your order N°

**Credit Terme** Salesman Net 30 Days OUELLETTE VALLEYFIELD

Carrier

Page

 			T.		
# 6170219	I X 6 1/4" X 72" HEAT SHEAR CUT SHEAR	7 ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V <b>4245</b>	FEAL-064486061 <b>3175</b> 3 X 4' X 8' HEAT	・ のよう : JEROME LE 12/02	Product Description
		21.96	86.50		Weight
	1.00	6.00 PI2_	96.00 PI2		Qty u
	CN .	PI2_\$CLB	PI2_\$CLB		U/M CMD
	(नीपरी)	76 (	XX		PCS N
			960	IN I S	<del> </del>
				C OUT	Use Only



DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

**Delivery Route** 

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Date Delivery date Customer N° 2018/02/08 2018/02/13 CLI0001056

Processed by Your order N° 03983

Salesman Josianne Bourdon

Carrier OUELLETTE VALLEYFIELD

Page **Credit Terme** Net 30 Days

CMD EXP B/O IN  12.00 PI_\$CLB  1X1\frac{1}{2}  1X1\frac{1}{2}  3X1\frac{1}{2}  3X1\frac{1}{2}	Product Description	Weight	Qty	U/M		PCS NB			Internal Use Only
57.60 12.00 PI_\$CLB   X X  112.78 12.00 PI_\$CLB   X X  253.76 36.00 PI_\$CLB   3X X  3X X	8 FLAT ALU 1 X 4 6061-T6 RANDOM				$\vdash$	$\vdash$	B/0	N	I S C
112.78 12.00 PL.\$CLB   X 2	FAL-14-V <b>2532</b>	57.60	12.00	PI_\$CLB				,	
112.78 12.00 PL \$CLB   X \(\frac{1}{\mathcal{X}}\) 253.76 36.00 PL \$CLB   3 X 1 \(\frac{1}{\mathcal{X}}\)								5	
112.78 12.00 PI_\$CLB   X 2  253.76 36.00 PI_\$CLB   3X 2	1 X 12' HEAT	,				X D,		1	
253.76 36.00 PI_\$CLB  X 2 3X 2	9 FLAT ALU 1 X 8 6061-T6 RANDOM	117 79		The second contract of	And from the contract of the c	215	And the second states of the second	er demonstra (Administration and Administration (Administration and Administration and Ad	
253.76 36.00 PI_\$CLB	FAL-18-V <b>2558</b>	112.70		h1_\$CLB				5	
253.76 36.00 PI_\$CLB 3X11_	1 X 12' HEAT					,		7	
253.76 36.00 PI_\$CLB 3X1Ĵ	TRANSIT ST-JEROME LE 12/02	en e	e estimation in many experience panels on question and in the second			No.	manufacture of a school of the second		
253.76 36.00 PI_\$CLB 3X12		And the control of th	And the control of th						
3X12	FAL-16-V <b>2536</b>	253.76		PI_\$CLB	Annual and the state of the sta	,	The straight in contrast of the straight of th	,	
	3 X 12' HEAT				ردگ	X1)		0/2	
					271-27		<del>, ,/-</del>		
									-



DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Date Delivery date Customer N° 2018/02/08 CLI0001056

Processed by Your order N° 03983 Josianne Bourdon 2018/02/13

Salesman

**Credit Terme** Carrier Net 30 Days OUELLETTE VALLEYFIELD

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Delivery Route** Page

Product Description	Weight	Otv II	3	PCS NB		Internal Use Only	V
1) ELAT CC 1 V 2 1/2 CC 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			CMD	EXP B/O	NI	I S C	OHT
FSS-1212-V 3492	102.00	12.00 PI_\$CLB	CLB	7			
1 X 12' R/L HEAT AC13459-MM-12/02				128"	72		
13 SQUARE SS 2 1/2 SS304 NS CSS-212 10059	255.00	12.00 PI_\$CLB	SCLB		S		the second second second second second
1 X 12' R/L HEAT AC13460-CF-12/02				1x 13'10'			
<b>14</b> FLAT SS 5/8 X 4 SS304 RANDOM NS FSS-584-V <b>8897</b>	34.00	4.00 PI_\$CLB	CLB	7			
1 X 4' HEAT AC13458-GR-12/02		v		۲,	7		



DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

Instruction

F-M

1270, ABERDEEN ST.

ACIER OUELLETTE INC.

Shipped to

, Ontario,

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Date Customer N° Delivery date CLI0001056

Your order N° Processed by 03983 2018/02/08 Josianne Bourdon 2018/02/13

Salesman **Credit Terme** Carrier Net 30 Days OUELLETTE VALLEYFIELD

**Delivery Route** Att : CHANTAL LAVOIE Tél.: 613-632-5200 Page

Product Description	14/-:			PCS NB		Internal Use Only	īv
	Meidille	ענא ט/ש	CMD	EXP B/O	NI	I S C	OUT
15 ROUND 4140 HT 1 3/8 NS	100.98	20.00 PI \$CLB		5		_	
R4140-138H <b>9252</b>				7	776		
1 X 20' HEAT			25	242	7		
16 ROUND SS 1/4 303 RANDOM	2.00	12.00 PI \$CLB	The second secon	many of regular problems. We have the second of the party of	<b>/</b>		The state of the s
RSS-14303-V <b>5739</b>				<u></u>	- '		
1 X 12' R/L HEAT				1 1 1 2 1	1		
17 TUBE ALU 1 1/4 X 1 1/4 X .120 6061-T6 R RANDOM	11.42	20.00 PI_\$CLB	comment state for more constructions of the property of the state of t	And the common terminal common common terminal and commonwhere the common terminal and	The second of the second of the second of	transfer of the control of the contr	The state of the s
TAL-114114120R-V <b>6312</b>				X20,	3		
TAY TO MODING CONNEW LINES THE PROPERTY OF THE	The state of the s	months in the small between highlights for a contract of the controlled to controlled the supplementary control to			)		
G	27.02	48.00 PI2_\$CLB	decommendation and selectional systems can decomply the selection of the s	5 mm	J V		and in the case of the present of the first of the case of the case of the
FEAL-0404122024B <b>3118</b>				7	000		
1 X 4' X 12' HEAT			_	X12	70		



DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Date Delivery date Customer N° 2018/02/08 CLI0001056 2018/02/13

Your order N° Processed by 03983 Josianne Bourdon

Carrier Salesman

OUELLETTE VALLEYFIELD

**Credit Terme** 

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M Delivery Route	oute 5			Page	Ф		6		
Product Description We	Weight	2			PCS NB	8		Internal Use Only	Only
And the second s	1911	404	0/14	CMD	EXP	B/0	NI	I S C	TUO
19 ROUND CR 1 1018 RANDOM	53.40	20.00	PI \$CLB						
RCR-1-V <b>5292</b>			ļ				- ·		
1 X 20' HEAT					D'EX!		10		
<b>20</b> ROUND 4140 HEAT TREAT 1 RANDOM R4140-1H-V <b>4919</b>	21.36	8.00	PI_\$CLB	and the second s			Y	The state of the s	Consider Prince of the Prince of the Lawrence American
1 X 8' HEAT COUPE A LA SCIE SCIE 1		1.00	CN		i×s,		COTAYS	7	1×16.8
21 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977  1 X 10' HEAT	10.43	10.00	PI_\$CLB		£ 10 2		90		

Billed to HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD 1270 , ABERDEEN ST. Instruction F-M Shipped to **Delivery Route** , Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Date Page **Delivery date** Carrier Salesman Processed by Your order N° **Customer N° Credit Terme** 03983 Net 30 Days Josianne Bourdon 2018/02/13 2018/02/08 CLI0001056 OUELLETTE VALLEYFIELD

	Delivery Koute	u								
Product Description	Waight		E A		PCS NB			Internal Use Only	Jse Only	-
· · · · · · · · · · · · · · · · · · ·	AACIGIIC	Aid	0/14	CMD	EXP	B/0	ï	S	C	TUO
TRANSIT ST-JEROME LE 12/02										
COUPE A LA SCIE		1.00	S							
SCIE 1	*1									
<b>2.3</b> TUBE MEC 0.750 OD X .083 NS TME-0750083 <b>10058</b>	11.82	82 20.00	PI_\$PI		7		N			
1 X 20' R/L OFFER .083 HEAT					3		7			
Conditions:	Total Weight (Lbs) :	nt (Lbs): 2 156.40		NIR : R-109516-6	09516-6					
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.	yment is made in full, comple his warranty is transferred by Iministration charges of 2% poeller, at his choice to claim for tamaged, cut or modified cant	te and cashed. All lost materia / "Acier Ouellette Inc." to the e er month (24% per annum) or the balance due or the repos not be returned. All goods retu	ils are at the buyer's expe lient. The buyer hereby ac n all past due amounts ove session of the goods sold. urned must be with our au	ise. The warra cepts to respe ir 30 days. Any All claims mus thorization and	nty offered by ct the default in t be made are subject to			÷		

By:	
Verified By :	
Delivered By	2
Time	

Customer's Signature

Prepared

Total (\$CAD)

# **DELIVERY - CLIENT**

Copy C000073496

IN I S C	В/О		CMD	Weight Qty U/M	rioduct bescription
Internal Use Only	B	PCS NB			
1		Page	Pa	Delivery Route 5	Instruction F-M De
Net 30 Days	O	Credit Terme	Ω	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Att
OUELLETTE VALLEYFIELD		Carrier	Ç	, Citalio,	o, K6A 1K7
		Salesman	S		1270 ARERDEEN ST
Josianne Bourdon	¥	Processed by	P	Prod 60	ROSPACE LTD
038983	•	Your order No	1	Shinned to	Billed to Shi
2018/02/13	; ro	Delivery date		Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Fa
2018/02/09		Date		Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248	Té
CLI0001056	0	Customer No	Ç	935, Boul. du Hâvre	

	1 ROUND 4	R4140-58H-V	4 X 20' R/L 1 X 10'	TRANSIT
Product Description	ROUND 4140 HEAT TREAT 5/8 RANDOM	1-V 4977	7	TRANSIT ST-JEROME LE 12/02
Weight	93.87			
Qty	90.00			
M/N	PI \$CIB	į		
CMD		7, 4		
PCS NB	_	10° 1	140	
TI I				
Internal Use Only	-			
Use 0	-	*		
	000			

		Time	Delivered Av	Verified By :	Prepared By :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.	and cashed. All lost materials are al cier Ouellette Inc." to the client. The nonth (24% per annum) on all past balance due or the repossession of be returned. All goods returned mu	ayment is made in full, complete a this warranty is transferred by "Act diministration charges of 2% per m seller, at his choice to claim for the damaged, cut or modified cannot t	Acier Ouellette Inc" until p d by the manufacturer and the buyer accepts to pay a rration and permits to the ; serchandise that has been	erials remain the property of " e same as offered and honore so days from billing date and to lide and to payment by accele his document enclosed. Any r	All sold and delivered mat "Acier Ouellette Inc." is th following conditions: Net 3 respect with this contract: within five (5) days with the a 25% restocking charge.
NIR: R-109516-6	(Lbs): 93.87	lotal Weight (Lbs): 93.87			Conditions:

Customer's Signature

Total (\$CAD)



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

### **PURCHASE ORDER** PO038983

Tel (613) 632-5200

Supplier:

ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

PO No:

PO038983

PO Date:

2/7/18

Due Date:

2/12/18

**Purchase Order** Revision: Revision Date:

Ship-To Contact:

Lacelle, LindaPhone:

llacelle@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quotation sou0084311

and the same				Items						
Line Item	N	Supplier Part No	2000	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extende
11	M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft				\$1,785.84
12	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	2/28/18	24 ft	0 ft	24 ft	\$20.94/ft	\$502.56
20000000	MT-4140- B-1.000X6.250		4140 Steel Bar 1.000 X 6.250 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft	\$61.25/ft	\$245.00

Grand Total: \$2,533.40

#### **Order Notes**

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

#### PURCHASE ORDER PO038983

Supplier: ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

PO No:

PO038983

PO Date:

2/7/18

Due Date:

2/12/18

Purchase Order

Revision:

**Revision Date:** 

Ship-To Contact:

Lacelle, LindaPhone:

llacelle@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quotation sou0084311

Items Line Supplier Due Order Received Unit Extended Part Part No Description Status Date Quantity Quantity Balance Price (CAD) Item Price 11 M303B1.000X03.000 303 Bar 1" X 3' Firmed 2/28/18 24 ft 0 ft 24 ft \$74.41/ft \$1.785.84 : MATERIAL: **AISI 303 SS BAR AS PER** ASTM A582 NOTE: AISI 304/316 NOT **ACCEPTABLE** receive ft M303B1.000 X Firmed 2/28/18 24 ft 12 M303B1.000X1.000 24 ft Oft. \$20.94/ft \$502.56 1.000 : MATERIAL: **AISI 303 SS** BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT **ACCEPTABLE** receive ft \$245.00 MT-4140-B-Firmed 2/28/18 23 4140 Steel Bar 4 ft 0 ft 4 ft \$61.25/ft 1.000X6.250 1.000 X 6.250 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529

receive ft

				Items						
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extende
25	M304S16GA		304/316 Sheet .063 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S- 5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed	2/26/18		96 st	96 sf	\$6.50863/sf	

Line Item Note replacement mat'l need credit for line #1 mat'l was not to spec's

Grand Total: \$3,158.23

#### **Order Notes**

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/23/18 9:01 AM dart.lavoie.chantal



	4 ALU SHEET .040 (18G) 6061-T6 (4 x 12) FEAL-0404126061 3121 2 x 4' x 12 HEAT: 01/0082345/7	£.			1 SHEET SS 16G SS304-2R (4 Y 8)	Product Description			1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	DART AEROSPACE LTD	Billed to			John Land of the State of the S	
_	54.05	150.72	537.60	252.00		Weight	Delivery Route 5	Att : CHANTAL LAVOIE Tél.: 613-632-5200	, Ontario,		Shipped to		Fax: 450-377-5696 Mt; 514-3	Salaberry de Valleyfield (Québec) J6S SL1 Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248	ACIER OUELLETTE INC. 935, Boul. du Hâvre
	96.00 PI2_\$CLB	96.00 PI2_\$CLB	256.00 PI2_\$CLB	96.00 PI2_\$CLB		Qty U/M		1.: 613-632-5200					36-4246 Ext.: 866-456-4242	ec) J6S SL1 336-4248 Ext.: 800-667-4248	ic. Ord
-	2.00	3.00	8.00	3.00	CMD EXP 8/0	1	Page	Credit Terme	Salesman Carrier	Processed by	Your order N°	Delivery date	Date	Customer N°	der - Sales
					IN I S C	Internal Use Only	1	Net 30 Days	OUELLETTE VALLEYEIEID	Josianne Bourdon	03983	2018/02/13	2018/02/08	CL10001056	Сору
			The above on the state of		TUO	ly		ţ	7				į.		C000073284



ACIER OUELLETTE INC.

Order - Sales

Copy

CO00073284

Billed to 7 ALU PLATE 1/4 6061-T651 RANDOM Φ 1270 , ABERDEEN ST. HAWKESBURY, Onlario, KGA 1K7 DART AEROSPACE LTD 1 X 6 1/4" X 72" 3 X 4' X 8 HEAT: 01/0072091/5 ALU SHEET .064 (14G) 6061·T6 (4 X 8) PAL-146061-V FEAL-064486061 TRANSIT ST-JEROME LE 12/02 **Product Description** HEAT:6170219 Shipped to , Ontario, **Delivery Route** 935, Boul. du Hêvre Salaberry de Valleyfield (Québec) 365 5L1 Fél.: 450-377-4248 Mtl; 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl; 514-336-4246 Ext.: 866-456-4242 Att : CHANTAL LAVOIE Tél.: 613-632-5200 Weight 21.96 86.50 **A**30 96.00 6.00 PI2\_\$CLB P12\_\$CLB CMD 1.00 3.00 0.00 Page Date **Credit Terme** Carrier Salesman Processed by Your order No Delivery date Customer No EXP PCS NB 8/0 ž Net 30 Days 03983 OUELLETTE VALLEYFIELD Josianne Bourdon 2018/02/08 CLI0001056 2018/02/13 Internal Use Only ISC TUO

NIR: R-109516-6

FLAT ALU 1 X 4 6061-T6 RANDOM

SHEAR CUT

FAL-14-V

2532

57.60

12,00

PI\_\$CLB

1,00

1.00

S

1 X 12' HEAT: 3B7163

C000073284

Billed to 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD Shipped to 935, Boul. du Hâvre Səlaberry de Vəlleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mt; 514-336-4248 Ext.; 800-667-4248 Fax: 450-377-5696 Mt; 514-336-4246 Ext.; 866-456-4242 **Delivery Route** Att : CHANTAL LAVOIE Tél.: 613-632-5200 , Ontario, w Date Page Credit Terme Carrier Salesman Your order No Delivery date Customer No Processed by 03983 Net 30 Days CL10001056 OUBLIETTE VALLEYFIELD Josianne Bourdon 2018/02/08 2018/02/13

	1 X 12' R/L (HEAT: 56171148	13 SQUARE SS 2 1/2 \$5304 NS	1 X 12' R/L HEAT: 265140	FSS-1212-V 3492	12 FLAT SS 1 X 2 1/2 SS 384 RANDOM	3 X 12 (HEAT: 37741)	FAL-16-V 2536	11 FLAT ALU 1 X 6 6061-T6 RANDOM	TRANSIT ST-JERCINE LE 12/02	IXIZ HEAT: 3BA855	FAL-18-Y 2558	9 FLAT ALU 1 X 8 6061-T6 RANDOM		Product Description	
		255,00			102,00		•	253.76				112.78	The same	Weight	
		12.00			12,00			36,00				12.00	44	740	
		PI_\$CLB			PI_\$CLB			PI \$CLB				PI_\$CLB	1770	II / M	
		1.90			1.00			3,00	0.00			1.00	CMD		
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101121112111E	ACIER OUELLETTE INC. 935, 8oul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ex Fax: 450-377-5696 Mtl: 514-336-4246 Ex	t: 800-66	Order - Sajes Customer N° 6-4248 Date	Copy CL10001056 2018/02/08
			Delivery date	2018/02/13
Billed to	Shipped to		loan orace is	
DART AEROSPACE LTD			Processed by	Josianne Bourdon
1270 , ABERDEEN ST.			Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Cricario,		Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAVOIE	Tél.: 613-632-5200	Credit Terme	Net 30 Days
	Delivery Route 5		Page	4
Product Description	Weight	Qty U/M	PCS NE	Interr
AC13460-CF-12/02				
14 FLAT SS S/B X 4 S5384 RANDOM NS FSS-584-V 1 X 4' HEAT 56171702 AC13458-GR-12/02	34.00	4.00 PI_\$CLB	1.00	
15 ROUND 4140 HT 1 3/8 NS R4140-138H  1 X 20' HEAT: 75063196 AC13457-VA-12/02	100.98	20.00 PI_\$CLB	1.00	
16 ROUND SS 1/4 303 RANDOM R55-14303-V S739 IX 12' R/L HEAT 35 W3	2.90	12.00 PI \$CLB	1.00	



# ACIER OUELLETTE INC.

Order - Sales

Copy

C000073284

Billed to 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD Shipped to 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242 , Ontario, Date Carrier Salesman Your order No Customer N° **Delivery date** Processed by 03983 OVELLETTE VALLEYFIELD CLI0001056 Josianne Bourdon 2018/02/08 2018/02/13

Att : CHANTAL LAVOIE Tel.: 613-632-5200

Credit Terme

Net 30 Days

Product Description Deliv	Delivery Route	DE 05	3	Page	PCS NB		5	Internal Use Only	al Use	Only
17 TUBE ALU 1 1/4 X 1 1/4 X .120 6061-T6 R RANDOM	11,42	20.00	PL_\$QLB	1.00	EXP	8/0	ž	1 8	C	TUO
TAL-114114120R-V 6312		¥0.00	r_\$cc							
1 X 20' ROUND CORNER HEAT 385880										
18 ALU SHEET .040 (18G) 2024-T3 48 (4 X 12) 2002000	27.02	48.00	PJ2_\$CLB	1.00						
1 X 4' X 12' HEAT : 18784388										
19 ROUND CR 1 1018 RANDOM	53.40	20.00	PI \$CLB	1.00						
RCR-1-V 5292										
1 X 20' HEAT : 141110										
20 ROUND 4140 HEAT TREAT I RANDOM R4140-1H-V 4919	21,36	8.00	PI_\$CLB	1.00						
1X8- HEAT (177569)					- 1					



Tall:	Internal lies Only	BN NOG		
	6	Page	Delivery Route 5	Del
	Net 30 Days	Credit Terme	AIL: CHANTAL LAVOIE TEL: 613-632-5200	Alt
ELD	QUELLETTE VALLEYFIELD	Carrier		o, K6A 1K7
		Salesman		1270 - ABERDEEN ST.
	Josianne Bourdon	Processed by	snipped to	ROSPACE LTD
	03983	Your order N°		Rillad to
	2018/02/13	Delivery date		
	2018/02/08	Date	Fax: 450-377-5696 Mtt: 514-336-4246 Ext.: 866-456-4242	Fax
	CLI0001056	Customer Nº	Salaberry de Valleyfield (Québec) 165 5L1 Tél: 450-377-4248 NH: 514-336-4248 Ext. 800 667 4248	CONTRACTOR SAIL
CO00073284	Сору	Order - Sales	ACIER OUELLETTE INC. Order	NO PROPERTY OF THE PARTY OF THE

COUPE A LA SCIE  SCIE  1  21 ROUND 4140 HEAT TREAT 5/8 RANDOM  R4140-58H-V  4977  4/K-10  I X 10" HEAT 75061935  TRANSIT ST-JEROME LE 12/02  COUPE A LA SCIE  SCIE  1  23 TUBE MEC 0.750 OD X .083 NS  TME-0750083  10058	Product Description	
10.43	Wainht	
1.00 10.00 -20.50 1.00 20.00	9	
P. P.	MATE	
1.00 1.00	4	70
EXP	PCS NB	rt
в/0	8	
IN		9
н	Intern	
s c	Internal Use Only	
QUT	Only	



Order - Sales

CO00073284

Billed to 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 OART AEROSPACE LTD SURCHARGE ENERGETIQUE **Product Description** FRAIS\_ENERGETIQUE Shipped to **Delivery Route** Att : CHANTAL LAVOIE Tél.: 613-632-5200 , Ontario, 935, Boul. du Hävre Salaberry de Valleyfield (Québec) J6S 5L1 Fax: 450-377-5696 Mtt: 514-336-4246 Ext.; 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 ACIER OUELLETTE INC. Weight 3 S/M CMD 0.00 Page **Credit Terme** Carrier Date Salesman. Processed by Your order No Customer N° Delivery date EXP PCS NB 8/0 분 03983 Net 30 Days **OUELLETTE VALLEYFIELD** 2018/02/08 CT10001026 Josianne Bourdon 2018/02/13 Internal Use Only 40 PS T

Conditions:

All said and delated malerials remain the properly of racer Queletze (not unit payment is made in full, compete and tasked. At lost revieres are at the buyer's expense. The warrany offered by "Acter Queletze (not one feet and tasked) and the same as offered and nonored by the re-questurer and his warranty is transferred by "Acter Queletze (not," to the devent hereby actually to respect the "Acter Queletze (not," to the devent hereby actually to respect the devent of the property of the property of the same are not of the same a

Total Weight (LBS) :1 2 156,40

Prepared By :	Venified By :	Delivered 8y :	Time	Customer's Signature	0 M A	Daposit	0.00
					-	Balance	7 617,34

DART AEROSPACE LYD

1270 , ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.

Order - Sales

Copy

CO00073496

Shipped to

, Ontario,

935, Boul. du Hàvre Salaberry de Valleyfield (Québec) J6S SL1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 856-456-4242

Date

CL10001056

2018/02/09

Delivery date

Customer No

2018/02/13

Your order No

038983

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

**Credit Terme** 

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

De	livery Route	5		Pag	e		1				
	T				PCS	VB.		inter	nal		Only
Product Description	Weight	Qty	U/M	CMD	EXP	B/O	IN	I	S	£	OUT
1 ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 4X 20' R/L 1X 10' TRANSIT ST-JEROME LE 12/02 SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE	93.87	90.00	PT_\$OLB	0.00 0.00			41x70 1 X10				
	Total Waight (LBS	E3 -1 02 07		NIR · R-	SARETE E				•		

Conditions:

All sold and delivered materials remain the property of "Adia: Qualitate Inic" until payment is made in full, complete and cashed. At lost materials are at the buyer's expense. The warranty offered by "Adia" Qualitate Inic." is the same as offered and horsored by the manufacturer and his warranty is transferred by "Adia" Qualitate Inic." to the chert. The buyer hareby accepts to respect the following conditions: Not 10 deeps from bring of data and the buyer accepts to respect the following conditions: Not 10 deeps from bring of data and the buyer hareby accepts to respect the following conditions: Not 10 deeps from bring of data and the buyer hareby accepts to respect with this contract will lead to payment by exceleration and permits to the select, at his choice to de in for the basince due or the repossession of the goods soid. At dains must be made within the (5) days with this document enclosed. Any mach and select that has been damaged, cut or modered cannot be returned. All goods returned must be with our suphorization and are subject to a 15% responsely or data.

Prepared By:	Verified By :	Delivered By :	Time	Customer's Signature	I Y I	M	1 0
					1.1	1	Li

Total (\$CAD)

Deposit Balance

297.17 0.00 297.17

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1606	7650,250x6,250 FEB 15 2018	PO 13.	ATOH NO 038983 \$042
MATERIAL CERT REC'D. QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	1-e5	. THICKNESS P	PROBLED 0.250  PROBLED 10.250  PROBLED 11.4  PROBLED 11.4
DESCRIPTION	NCR (Check	COMI	WENTS
SURFACE DAMAGE CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE	Y/N) Y (N) Y	250/11 1702/9	
ENGINEERING SIGN OFF  DOES THIS REQUIRE AN  EXTRUSION REPORT	Y N Y N OF MATERIAL AND F		ONESS CHECK.
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READIN	IG	HRB DUR/	A DURE WE
	testers located in the Qu	iality Office	

QC 18 INSPECTION	ENGINEERING SIGNOFF (計能
DAS INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89 FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B SCALE NTS SHEET 1 OF 1 09.07.13 01.06.08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.

RE
M6061T6S

TITLE 60061-T6 SHEET SPEC DS CP B REFORMAT DWG, ADD B209 SPEC (ZN D8-1).
REF PAR 08-020A THIS DOCUMENT IS PRINTED NOT TO BE USED FOR JANY P. DE APPROVED DE APPR.

DATE 09.07.13 A NEW ISSUE DESIGN DRAWN CHECKED MFG. APPR. REV.

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-76/762 ALUMINUM SHEET SPECIFICATION: QQ.A-250/11 DR AMS-QQ.A-250/11 OR AMS 4027 OR AMS 4027 OR ASTM B209

M6061T6S|XXX

PART NUMBER:

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WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063 XXX BY 4FT BY 8FT

PREFERRED SIZE:

U

8

MILL TEST QUALITY CONTROL CERTIFICATE ALNAN ALUMINIUM INC. 10 No.65 TingHong Road Nanning Guanget, 530031, China PRODUCT TYPE ELISTONO? ADDRESS. ATEMarch 20.2017 Abinimim Alloys Pla 2115 LINWOOD AVENUE 2ND 24 DORFORT LEE, NJ 67024 , USA MPIRE REBOURCES, INC. UTS (=0) (M) ď Disension (mm) -Me 7 Z (but) 05-12 040-45 0.7max matical direct عده ويهوا ودعه المخزية مهد TESI 6061 7651 (consiste 0.18-0.6 0.5.12 0.48-0.5 0.7max 0.33min 6061 7651 (consiste 0.35-0.46 0.8-1.2 0.48-0.5 0.7max 0.33max Januari Smin 1.001-2.000 altrice altered abends 6min 50,825-101.6 2 005-4200 men acons tres motio mone 625 16.0 45.8 441 1.07 0.74 0.12 0.51 0.02 CANFIRM STATE | 0.350-48.5765 | C.500 | 0.245 | 1.598 | 4061 | TEST | 1500 | 1500 | 0.26 11.0 0.02 . 0,02 425 0.13 1,80 0,74 16.0 45.5 441 1.07 0.74 0.13 110 8.52 2.01 0.25 0.225 T651 360 454 0.02 . 0.02 0.25 44.3 0251-42-965 6500 0250 1.592 0.25 1.07 0,74 0.12 6.11 TO 160 453 441 1931 6350-415-965 6290 0.200 L932 4061 T652 0,12 11.0 0.02 0.82 4.25 1.07 4.26 0.74 Origin of Goods as alvan Aluminium inc.

Actual Mill Chemical and Michanical Property Test Reports in Imperial Nomenclature required per 8100 ... In Material Conforms for Alloy 8091, 7051, and per Aluminium (Asspects).

MATERIAL CONFORMS FOR ALLOY 8091, 7051, and per Aluminium (Asspects). 广西南南福加工有限公司 ACNAN 新JAN NUN "NO COUNTRY OF MELT AND MANUFACTURE CHINA Issued by QA51 Reviewed by QASS 1/1 NO. # 20184030 Yeraion: 0

# MATERIAL RECEIPT INSPECTION FORM

	<u>HGB 1, 000×04,</u> FEB 1 5 2018	000	PO BATO	- NO <i>03898</i>	3 <i>f</i> 04221
MATERIAL CERT RECID.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	y.e.s 12'' 21'	, THIC	OKNESS ORDS CKNESS RECE ET SIZE ORDS ET SIZE RECE	IVED: 1-0( ERED: <i>N</i> )	
DESCRIPTION	NCR (Check Y/N)	ž	COMMEN	TS.	
SURFACE DAMAGE	Y (N)		*		*0
CORRECT FINISH	(Y) N				
CORROSION	YN				
CORRECT GRAIN DIRECTION	MA			***************************************	
CORRECT MATERIAL PER M-DRAWING	N Action	R121			
CORRECT THICKNESS	(Y) No	DATI			
PHOTO REQUIRED	Y (N)				
CORRECT REF # TO LINK CERT	1 N Heat F	= 3R716:	₹		
CORRECT MATERIAL IDENTFICATIO	NON	00/10			
CORRECT M# ON THE MATERIAL	(Y) N				
DOES THIS MATERIAL REQUIRE					\$17 - 27 FEBRUAR \$ 500 TO SE
ENGINEERING SIGN OFF	Y				
DOES THIS REQUIRE AN					
EXTRUSION REPORT	YA				
CUT SAMPLE PIEC				SS CHECK.	Sealing that I have been as
	RECORD RESI				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR B	I WES
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READ		<u> </u>			
	testers located in t	he Quality Office	9		

QC 18 INSPECTION	ENGINEERING SIGNOFF (IF &
INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89 <b>FEB 1 5 2018</b>	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SHEET 1 OF 1 REV. B 01.06.08 DATE 09.07.13 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
F
M6061T6B COPYRIGHT © 2001 BY DART AEROSPACE LTD his poblater should see constitute that constitute who is served by the constitute and to the constitute of the const S DS B REMOVE QQ. 4-250/11 OPTION. REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) 2 mile ■ 6061-T6 BAR DESCRIPTION DRAWN
CHECKED
AUC
MFG. APPR.
APPROVED
DE APPR.
DATE
09.07.13 A NEW ISSUE DESIGN REV.

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION CONTROL DRAWING

SPECIFICATION:

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 $\otimes$ 

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B2217

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW WIDTH THICK

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

O

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000



http://www.extrudex.com 411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA LAL 8N4 TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210

382626

EXTRUDEX ORDER NO. MANIFEST NO. MADE IN CANADA CERRECATION
MILL TEST ASTM B221/14 212394 - 2SALESMAN HOUSE ACCOUNTS DATE OF SHIPMENT Dec/06/2017 PART-DESCRIPTION Y TEMPER 4657 91 DIE NUMBER 6061 ALLOY S CUSTOMER PART NUMBER CUSTONER PO CERT CODE: 105987 EXTRUDEX ALUMINUM (QUEBEC) INC. ACIER OUELLETTE MILL TEST SO DESCRIPTION FLAT 4" X 1" BILL TO SHIP TO

		Conductivity	
		Hardness Rockyrell F	86.0,86.8,87.6
<i>y</i>		Percent. Elongation	10.00
		Yield Strength (KSI)	39.80
FLAT 4" X 1"		Ultimate Tensile	42.80
S004657		Test Date	Nov/28/2017
AT 4" X 1" SO046	al Properties	Allox	6061
FLAT 4" X 1"	Mechanica	Į	A.11

200	N N N	٥		
		0 Remainder	l temper	•
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1	Sa V	0	Specific	
	H	0.05		
1	9	0.01	0 0000	
	Z	0	ayed a	
	ij	20.0	following extensions have been quality inspected/fested and conforms to required dimensional and temper	
	돲	0.86	or live	BILLANDIN
	뒴	0.03	3	
	a	0.2	4	ations.
	2	0.15		specifications.
1	N	0.58	-	- va
	Alloy Si Fe	1909		

Other

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Cast Number 387163

A.11 ğ

Chemical Composition

Quality Control Manager Fulsiram Mohabir

#### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MOO	14681000 X8.0 FEB 15 2018	00	PO BATOMI	NO <u>0.389</u>	3/2011s
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	12"	. THICK	NESS ORDER NESS RECEIV I SIZE ORDER I SIZE RECEIV	ED: 1.00	
DESCRIPTION	NCR (Check Y/N)	×	COMMENT	S	
SURFACE DAMAGE	YIN		*		
CORRECT FINISH	(Y) N				
CORROSION	YN				
CORRECT GRAIN DIRECTION	M N				
CORRECT MATERIAL PER M-DRAWING	(Y) N Aston J	2221			
CORRECT THICKNESS	(Y) N	22 4.1			* -
PHOTO REQUIRED	X (N)			***************************************	
CORRECT REF # TO LINK CERT	(X) N HONTI	38485	)		
CORRECT MATERIAL IDENTFICATION	V N				
CORRECT M# ON THE MATERIAL	(Y) N				
DOES THIS MATERIAL REQUIRE	^				The second second second second
ENGINEERING SIGN OFF	Y (N)				
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)				
				4	
CUT SAMPLE PIEC	E OF MATERIAL AND RECORD RESUL	TS BELOW			
	HRC	HRB	DURA	DUR E	: 7//==
TYPE OF MATERIAL		1			
SIZE OF TEST SAMPLE		1			
HARDNESS / DUROMETER READI	NG				
	testers located in the	Quality Office			

QC 18 INSPECTION	ENGINEERING SIGNOFF (計能
DAC INSPECTED BY:	SIGNED OFF BY:
DATE: 9-FEB 1 5 20	18 DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B DS 01.06.08 BY DATE SHEET 1 OF 1 09.07.13 DART AEROSPACE LTD

| ANWESBURY, ONTARIO, CANADA
| ANWESBURY, ONTARIO, CAN COPYRIGHT © 2001 BY DART AEROSPACE LTD
THE DOCUMENT IS REALE AND CONTEMPORATION AND CHARLES CONTINUED ON THE DIFFESS CONTINUED.
NOT TO BE USED FOR NATURATION. CP | REMOVE QQ.4-250/11 OPTION, REFORMAT NOTES, ADD | ASTM B211/B221 (ZN D7-1) | A NEW ISSUE DESCRIPTION CHECKED A.J.C. MFG. APPR. APPROVED DE APPR. DATE 09.07.13 DESIGN REV.

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

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SPECIFICATION CONTROL DRAWING

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-2200/8, OR AMS 4160) OR ASTM B211 OR/ASTM B221

M6061T6B T.TTT | X | WW.WWW

PART NUMBER:

WIDTH THICK

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

O

CO. 13284 DARY EXTRUDEX

TEL: (416)745-444 FAX:(416)745-0925 1-800-668-7210 411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4 http://www.extrudex.com

を行る

367046 MANIFEST NO. MADE IN CANADA MILL TEST ASTM B221-14 EXTRUDEX ORDER NO. 203280 -CERNFICA TION HOUSE ACCOUNTS DATE OF SHIPMENT Mar/16/2017 8" X 1" FLAT BAR TEMPER ART DESCRIPTION DIE KUMBER 6061 SALLOY CUSTOMER PART NUMBER DT05830 CUSTOMER PO 103568 CERT CODE: EXTRUDEX ALUMINUM (QUEBEC) INC. ACIER OUELLETTE SO DESCRIPTION 8" X 1" FLAT BAR MILL TEST BILL TO SHIP TO

Mechanica	fechanical Properties	_		i														3	
rot	Allox	]			isi Si	Test Date	퓔의	Ultimate Tensile Y Strength (KSI)	(KSI)	Yield Strength (KSI)	trength (KSI)	9 S	Percent Elongation	<b>평</b> 없	Hardness Rockwell E		ğ	Conductivity	
A.11	6061				Mar/	Mar/15/2017			49.80		46.50		12.5(	65	3, 92.2, 9	5.5			
Chemical Cast Number 384655	St Number Lot Allew 4855 A.11 6061		<b>त्र</b> हैं।	3 12 3 12	25 PS	0.88	ଧରୁ	23 °	0.01	1 10°0	Ti Ga	9 K	<b>m</b> •	74 °	a °	a S	A °	St Co Al	Other C

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We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

> David Natale Quality Control Manager

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL DERT RED D.	MATERIAL <u>M606116</u> DATEF	681.000x6.000 EB 15 7118	:	PO BATOH N	038983K	04221
DESCRIPTION  (Check Y/N)  SURFACE DAMAGE Y N  CORRECT FINISH  CORRECT FINISH  CORRECT GRAIN DIRECTION  CORRECT GRAIN DIRECTION  CORRECT MATERIAL PER M-DRAWING  PHOTO REQUIRED  CORRECT THICKNESS  PHOTO REQUIRED  CORRECT MATERIAL IDENTFICATION Y N  CORRECT MATERIAL DENTFICATION Y N  CORRECT M# ON THE MATERIAL  CORRECT M# ON THE MATERIAL  DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF  DOES THIS REQUIRE AN EXTRUSION REPORT  CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.  RECORD RESULTS BELOW	QUANTITY RECEIVED: 3	6	THICKN	ESS RECEIV SIZE ORDER	ED: <u>1.000</u> ED: <u>1/4</u>	
SURFACE DAMAGE  CORRECT FINISH  CORROSION  CORRECT GRAIN DIRECTION  CORRECT MATERIAL PER M-DRAWING  CORRECT THICKNESS  PHOTO REQUIRED  CORRECT REF # TO LINK CERT  CORRECT MATERIAL IDENTFICATION  CORRECT MATERIAL IDENTFICATION  CORRECT M# ON THE MATERIAL  CORRECT M# ON THE MATERIAL	DESCRIPTION	(Check	*	COMMENTS	3	
CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW	CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN	Y N Y N Y N Y N Y N Y N Y N Y N Y N	B221 -37241	•		
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING  testers located in the Quality Office	TYPE OF MATERIAL SIZE OF TEST SAMPLE	RECORD RESU HRC	LTS BELOW HRB			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if )
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	<sup>9-89</sup> FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B SCALE SHEET 1 OF 1 09.07.13 01.06.08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEE Q. DS B REMOVE QQ.4x-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) FILE BAR 6061-T6 BAR MFG. APPR. APPROVED WITH DE APPR. CAPPR. DATE 09.07.13 NEW ISSUE CHECKED DESIGN REV.

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

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SPECIFICATION CONTROL DRAWING

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SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

 $\bigcirc$ 

M6061T6B T.TTT | X | WW.WWW

WIDTH THICK

WHERE "T, TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

EXTRUDEX FAL-16-1C

TEL: (416)745-444 FAX:(416)745-0925 1-800-668-7210 411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4 http://www.extrudex.com

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5 2 I	- 1	Other
X ORDER NO. MANIFEST NO.  1 377291 MADE IN CANADA ASTM B221-14	Conductivity	Sr Co Al Q 0 0 Remainder
1 1 0E IN M 822		a °
MAI MAI	\$ L91.5	<b>a</b> °
208405 1  MADE IN CA MADE IN CA MILL TEST ASTM B221-14	Hardness Rockwell E 90.9,91.1,91.5	<b>2</b> 0
- 16.5/	cent ation 10.30	71 °
STNU	Percent. Elongation 10.30	<b>6</b> 10
жемт 317 СССО		9 ¢
DATE OF SHIPMENT SEPIO7/2017 SALESHAN HOUSE ACCOUNTS	trength (KSD) 40.30	a °
KAY.	Yield Strength (KSD) 40.30	ET 0.00
DIE NUMBER S 4658 ALLOY TEMPER 6061 T6 PARTOESCHIFTON 1" X 6" FLAT BAR	nsile (KSI) 42.80	Zn 0.023
DIE NUMBER ALLOY 6061 PARIOESCR 1" X 6" F	Ultimate Tensile. Strength (KSI) 42.80	⊠ °
	15 THE	50.0 0.056
R? NUMBER	Test Date Sep/07/2017	Mg 0.832
CERT CODE: CUSTOMER PO 105802 CUSTOMER PARTI	Sep/	0.06
CERT COD 1 CUSTOME 106802 CUSTOME DT0468		Ø 8
<u>.</u>		Ee Cu 0.216 0.189
EBEC) IN	( )	SI 0.576
IUM (QUI	Allox 6061	Chemical Composition East Number tot Allox 37241 A.11 6061
LUMIN	Prop	A. 11
SEX A	nical	Cal C
MILL TEST  BULL TO  EXTRUDEX ALUMINUM (QUEBEC) INC.  SO DESCRIPTION  1" X 6" FLAT BAR	Mechanical Properties Lot Allox	Chemical Cast Number 37241

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Quality Control Manager Tulsiram Mohabir

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL <u>M304</u> DATE.	<u>IB 1.000 X 2.50</u> 0 FEB 1 5 2018	)	PO BATCH	NC 038983/	1 0422C
MATERIAL CERT REC D	211	, THICK SHEE	(NESS ORDE) (NESS RECE!) T SIZE ORDE! T SIZE RECE!)	ED 1.000	
			*		
DESCRIPTION	NCR (Check Y/N)	٠	COMMENT	-s	
SURFACE DAMAGE CORRECT FINISH	YN		*		
CORROSION CORRECT GRAIN DIRECTION	(Y) N	A		A CONTRACTOR OF THE CONTRACTOR	
CORRECT THICKNESS	(Y) N	1276			
PHOTO REQUIRED CORRECT REF # TO LINK CERT		265140	<u> </u>		
CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL	N N				
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (R)				
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (Ñ)				
	E OF MATERIAL AN	DO SECRA	TAUADONE	SS SUESS	
CUT SAMPLE P!EC	RECORD RESU	TS BELOW	DUR A	DURI	— <u>⊼:</u> E
TYPE OF MATERIAL	HRC	HRB	JUN 5.		
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READ	ING				
	testers located in the	e Quality Office			

C 18 INSPECTION		ENGINEERING SIGNOFF (if )
INSPECTED BY:	DAS Television	SIGNED OFF BY:
DATE:	9-89 FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE) SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER:

M304B|T.TTT |X|WW.WWW|

WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

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	$\stackrel{\cdot}{=}$	
M	30	U.
-	70	5

ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE" REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A 10.11.25 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304B
SHEF DESCRIPTION TITLE SCALL
304/316 BAR/PLATE NTS
COMPRIGHT 9 2005 BY DART AEROSPACE ID
MOCODANCE CONTROLLED AND STORM OF CONTROLLED AND STORM N MB ВҮ P REV. C SHEET 1 OF 1 SCALE NTS DATE 05.06.10 09.07.15 10.11.25

MFG. APPR. APPROVED

DE APPR.

DESIGN

REV.

NEW ISSUE

CHECKED

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# Acciaierie Valbruna Sp.A.







rius di Spenizione: D-VI14038370

Ordinant: 41 1005009 Stock - Campila

K ENAOD



CERTIFICATO DE COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1

381.00 VIČENZA (Imin) - Viele della scienza, 25 z.l. Stats.: 39100 BIČLZANO (Italia) - Via A. Voliu, 4 Telephon zumber : 0038 (0) 444863211

VALERUNA CANADA L'ID 8724 HOLGATE CRESCEN LSY 521-MILTON, ONT LST 521-CA

PROMINE ACCIAIERIE VALBRIMA S.P.A.

State of ferniture: Hot rolled Described Annealed Hat railed

VSI D 204/2004LA (2)
ANS 5647 J 530403 A
ASME SA153 2013 85 CLASS1 (2)
ASME SAC73 2013 85 CLASS1 (2)
ASME SAC73 2013 S3040000 A (6)
ASTM A362 2013 PRACTICE E
ASTM A362 2013 B6 CLASS1
ASTM A470 2013A 530400001 A
NACE MP0175 2009 S30400003 A (8)

ALS 304/304L AMS-CO-S-263 C 304/304L A ASME SA278 2013 S3040003 A (3) ASTM A142 2012B 53040003 A (6) ASTM A27B 2012A 63040003 A ASTM A370 2013 . 1814-5-882 8/1 304/304L QQ-5-763 F 304/304LA

Certificato nr: MEST610842/2014/

ina audine ir: El 14011346

enzone del Colleus

AMS 5638 H \$30400 A ASME SA182 2013 \$30400/05 A (1) ASME \$A320 2013 BB CLASB1 (4) ASTM A193 2011A B8 CLASS! ABTM A314 2008 \$30400/08 ASTM A473 2001 \$30400/03 (7) NACE MR0103 2010 \$30400/03 A

(II) PROVA
(II) For products redebland dissely from bur relay to ASME SAA75.
(S) SECTION II PT.A 2013 EDITION
(II) to ASTM AA78.
(II) ANSWAACE MITO) TSASO 15188-3, ampter milder 2009-10-15

(1) SECTION IF PZ.A 2018 EDITION (2) SECTION IF PZ.A 2018 EDITION (4) SECTION IF PZ.A 2018 EDITION (5) For products risichined diseasily for (7) Charless emplyits emp.

itusi angiptis emy. Nga cirantar 1:2011 Publishad 2011-05-14

Qual: 304/304L

Marcin: Institution	AISI	Tolumna: ASTM A484-14 TABLE 5	Personalum: 304/30	MI.	Jul		
Post, FF. App. or spin or Its departs	Coppells deposits Passay descriptor Charles de puede	Cimecetoni - In	Feedore   Feedore   Findipitate - pt	Contract	Pazzi Granica Pazzi Pazzi	Panti-LB Grand Wild Pain	LOSIO AY. Sago, Luriu. Saster.
0030	Flet	2,5000 x 1,0000	.144/153	265140		2.584	418904340
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TEST Procedure	<b>*</b> F		Spenariostico Editional Rp 6,2%	Segremento	Recistores Are kel	Alberta	E 44	Sark Savan Anaman Na	RA	Resilience.	1 .4	Heb
Voteri deblesti 1	m		30	• .	75 115	•	40		50	•		140 223
A 12,5	66	L	46		91		55		71		186	

TEST		min	INERE	
A	Grain size for ASTM E112			6

Mechanical properties according to ASTM A370.

#### Analisi chimica

i	Colote Aus	urdis - 		2,00	10,00 20,08		1,00	10,50 10,50		O'ppi		0,106	:		:	-
						Mo %						N % 0,080				
•	265140	U,UID	U,AS	10/3	19,00	u,co,	Man.	0,00	0,123	41444	חשואת	mines.		<u></u>		

Produced without class I-II Ozone depleting multi-Solution has breated free from continuous carbide network. Armeeling lemperature: 1940\*F for 1 trivator.

Missin sand mustro etch bust; QK

Reduction ratio > 4:1

Intergranular corrosion test per ASTM A282 pract. E: ok.

Vicenza,01/12/14	Il unitaritation di stabilimento / der Windesperingentitriliga (Vintes Inspectio / L'agent d'unive	Studies - 1 of 2
Vicenza,01/12/14	M. Rizzody Fund	Pagina - 1 di 2

# Acciaierie Valbruna...







Avvice di Spedizione: D-VI14038970

Carging ar: 411005009 Stock - Canada

Tipo di Elaboratora: E+AQO



CERTIFICATO DI COLLAUDO ABNAMMEPRUEFZEUGNIS BISPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

38100 VICENZA (Ibalia) - Viele dalla adlarza, 25 z.b. Sasta: 38100 BOLZANO (Ibalia) - Via A. Volia, 4 Telephon number : 0039 (0) 444882211

CHORD / STANDARDA LTD VALERUMA CAMADA LTD 8724 MOUSAYE CRESCENT LST SZ1-4MLTON, ONT LST SZ1-CA

PROBLEM ACCUAIENTE VALBRUNA S.P.A.

State of Versioner: Hot reflect Described Annualed Hot solled

Absonce of cracks at 20 x magnification after band hast.

Some state coddinate to the te condicion) rightering the provide Administrative that is delay and in the replacement for the condition of the

Controlle and masteriarea. OK Verreina de leist austria-dynas destination austrial and austrial SI. Carificato nr: MEST810842/2014/

Contenns entire or, 131401 1346

Signeyhip of Yiphysion; Zables de Sisteranish Tuga sapi, Mga de Fusion yeshilin

Purisáne del Collesdatore:



Controllo rigino e districtionais, antificia le esignisti

Alternation and manufactured in high. He medding or weld report. Material from Manuary contembation.

We dealers that the finished product is checked for endoughou enablements through Portal System which it issues the perduction plant.

The Gually Management, System in Castified and, Promove Equipment (Neophra (Neoph



MATERIAL M3046 DATE: FEB	2,500x02500 15 2018	2	PO BATOH!	038983 fs	1422a
MATERIAL CERT REC'D.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	(1)	- _ THICK sheet	(NESS ORDER INESS RECEIV T SIZE ORDER T SIZE RECEIV	ED 2.500	D
DESCRIPTION  SURFACE DAMAGE CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT	NCR (Check Y/N) Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	+ 5617114	COMMENT.	S	
CUT SAMPLE PIEC	E OF MATERIAL . RECORD RE	AND PREFORM SULTS BELOW			
TYPE OF MATERIAL SZE OF TEST SAMPLE HARDNESS / DUROMETER READI	HRC NG	HRB	DUR A	968 3 	
OC 18 INSPECTION	testers located I	n the Quality Offic		RING SIGNO	FF (if

C 18 INSPECTION	ENGINEERING SIGNOFF (IF
DAS INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89 FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received a

1) 2010 -11-30 AM

SCALE REV. C SHEET 1 OF 1 09.07.15 05.06.10 10.11.25 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M304B 304/316 BAR/PLATE
COPYRIGHT © 2005 BY DART AEROSPACE LTD
THE CODACTE IN THE TRANSPACE CONTRIBUTION OF STATEMENT OF THE TRANSPACE COMPANY OF THE TRANSPACE CONTRIBUTION OF THE TRANSPACE CO Æ CP MB ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR? TO "304/316 BAR. TO "304/316 B 10.11.25 **NEW ISSUE** DESIGN
DRAWN
CHECKED
MFG. APPR. DE APPR. DATE 10 REV. O 8

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE)

M304B T.TTT X WW.WWW THICK WIDTH ASTM A276 OR ASTM A240 SPECIFICATION: PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

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Bellinghaus Steel, SA					000030					26	10.20	17	- 1	. ^
INM EN ISO 9601:2008							,L				-			110
TOV CERT No. 01 100 030458	85		150	undard	s / Nom	Normas FRM-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM FRM-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16a, ASTM FRM-16a, ASTM A182/A182M-16a, ASTM A193/A193/AND FRM-16a, ASTM A193/A193/AND FRM-16a, ASTM A193/AND FRM-16a,					MES	P ~		
			OTL	A TENA	275M-15a	ASTM A	182/A1	824E-18	e, ASTIM	MS 88	ATIC AS	ME	1	1
TYPE 304UNS \$20400 and TYPE 30 A479/A479N-160, ASTM A320/A320	04L/UNS \$304	4314-15, A	STMA	262-15	Proct E,	MARE CO-	S-7630	MACE I	SR0175-7	2015,	googe curbic	n 25 P	) (10)	
TYPE 304JUNS \$20400 2mi TYPE 30 A4T9/A4T9M-168, A5TM A320/A320 SA4T9/SA4T6M, A5ME SAZ76, ASM	E 5A182/182h	A ASME S	A 1934	\$A193N	I, ASME S	A3ZUISA	32UIII.	ALTERNATION D					- 1	1
ASTM AABAIAABAIN-18.					Endgüs				-	w 10	Charte	Fina	1	
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material: <u>M304</u> date: <u>FE</u>	BO:68	25 x 4.00	<i>x</i> 0		PO BATO	- NC 03898	3 kH24
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SURFACE DAMAGE	YIN				^		
CORRECT FINISH	(Y) N						
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CORRECT THICKNESS	(Y) N	~					
PHOTO REQUIRED	XIN	/1 :	1- 17 1-	0000	1		
CORRECT REF # TO LINK CERT	(X) N	Hear	536/1	1700	ζ		
CORRECT MATERIAL IDENTFICATION	(X) N						
CORRECT M# ON THE MATERIAL	(Y) N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y C	)					
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©C 18 INSPECTION		ENGINEERING SIGNOFF (if)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	<sup>9-89</sup> FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276 OR ASTM A240 SPECIFICATION CONTROL DRAWING

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EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

PART NUMBER:

M304B|T.TTT |X|WW.WWW |

2010 -11- 30

ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG. CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE" REFORMAT DWG, ADD SPECS (ZN D8-1). REF PAR 08-020A MB CP 09.07.15 10.11.25

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PH

05.06.10

DART AEROSPACE ITD
HAWKESBURY, ONTARIO, CANADA
M304B

MFG. APPR.
APPROVED

10.11.25

DESIGN DRAWN

NEW ISSUE

DATE

REV. C SCALE

SHEET 1 OF 1

TITLE SCALL

304/316 BAR/PLATE NTS

306/316 BAR/PLATE STATE ARROSPACE LTD

DOPPRIENT 62005 8T DART ARROSPACE LTD

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MATERIAL MT-414 DATE:	375 2010	1.375		PO BATOR N	: 05 <u>8983</u> fic	4220
MATERIAL CERT REC D.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	1411		, THICK	KNESS ORDER KNESS RECEIV IT SIZE ORDER T SIZE RECEIV	ED 1.375	
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DESCRIPTION	NCR (Check Y/N)		*	COMMENT	S	1)
SURFACE DAMAGE	Y I(N)					
CORRECT FINISH	(Y) N					
CORRECT FINISH	V(N)					
CORRECT GRAIN DIRECTION	M					
CORRECT GRAIN DIRECTION	N	A.193				
CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS	N (A)	7/11				
PHOTO REQUIRED	(N)					
CORRECT REF # TO LINK CERT	(V) N	HONTE	75063	3196		
CORRECT MATERIAL IDENTIFICATION	(X) N	1-1-1-	, , ,			
CORRECT M# ON THE MATERIAL	(V) N				- 100	
COES THIS MATERIAL REQUIRE						
ENGINEERING SIGN OFF	VA					
DOES THIS REQUIRE AN	A					
EXTRUSION REPORT	Y (N)					
EXTROGION NET ON						
CUT SAMPLE PIEC	E OF MAT	ERIAL AN	DPREFOR	M A HARUNE	35 UMEUN	
	RECC	RD RESU	TIS REFOA	¥	DUR 3	E
		-IRC	HRB	DURA	<u> </u>	
TYPE OF MATERIAL						
ISIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READ	NG					
: //	testers	located in th	e Quality Offi	<u>ce</u>		

6 8	18 INSPECTION		ENGINEERING SIGNOFF (#
ACC DE	INSPECTED BY:	DAS	SIGNED OFF BY:
	DATE:	9-8-B 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received.

	CERTI	FICATE O	F COMPLIA	NCETO	ERTIFICAT D	Packing	slip / No. d'expédition	DATE
der No. / No. C	ommande	CUSTOMER					slip / No. d'expédition	DATE
der No. / No. C		CUSTOMER				L3511	1-01	12-02-18
C00013457			ELLETTE INC	HEAT TRE	EATMENT / TRAITEME	NT THERM	MQUE	HEAT / COULEE
2016-2650	MATÉRIEL (	GRADE / NUANG	1/1/2/		REVENU - RECUIT			75063196
					ul s	e DECIFI	ICATIONS	
HAPE / FORME		SIZE / DIMENSI	N NG	1			A434-90a-BC, A32	2-07
Round / Rond		1.3750"	in.	-	ASTM A193/19	3101-01,	A404-000 Day	
AYS D'ORIO	BINE:	U.S.A.			1/00 DI	4401	E	
		CHE	MICAL COMP	OSITION	/ ANALYSE CH	IMIGO	Phosphorus	s (P)
	Çarbon (	C)	Silicon (Si)		Manganese		Thoophore	0.035
mıni/maxi	0.380	0.430	0.150	0.350	0.750	1.000	0.011	
actuel (%):	0.420		0.250		0.860		0.011	
				(Cr) Nickel (Ni			Molybdenu	ım (Mo)
	Sulfur (S	5)	Chromium	1.100	0.000	0.250	0.150	0.250
mini/max		0.040	0.800	1. ΙΨΩ	0.130		0.170	
actual (%):	0.019		0.970		0			
	Copper	(Cu)	Vanadium	(V)	Aluminium	n (Al)	Tungsten	(T) 
mini/maxi		0.350					0.000	
actuel (%):	0.240		0.004		0.026		0.000	
			ANICAL DECE	ERTIES	PROPRIÉTÉS	MÉÇA	NIQUES	
		MECH	ANICAL PROP	tio Flanca	tion / allongement (	%) Re	duction of area / surface	(%) Hd/dure surfa
Yield strength			I - TANKER A SO THOS					

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentionned specifications. Material is Mercury free, without radioactivity.

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionn ont été vérifiés et sont conformes aux spécifications. Pas de contact au Mercure, sans radioactivité.



DESIGN	DRAWN BY	DART AEROSPAC	CANADA
CHECKEDII	APPROVEDI	DRAWING NO.	REV. A
CHECKED		M4140H-R	SHEET 1 OF 1
DATE		TITLE	SCALE
DATE	05.02.21	4140 ROUND BAR	1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AIST 4140 H ROUND BAR

PER AISI 4140 OR ASTM A304-02/-A-434-BC/ -A193-03- GRADE-B7 /-A29-03 /-A322-91 OR

UNS # - 641400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 Ksi MINIMUM YIELD TENKILE STRENGTH = 66 Ksi

PART NUMBER:

WHERE D. DDD = DIAMETER IN INCHES M4140H-R D.DDD DIA

EG. 7/8" ROUND BAR = M4140 H-RO. 875



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material: <u>M304S</u> date: <b>F</b>		118		FO BANGAL	:038983/	5042197
MATERIAL CERT REC'D: Y. QUANTITY RECEIVED: J QUANTITY INSPECTED: 3 QUANTITY REJECTED: 4	56 prz		, TH:(	OKNESS ORDER OKNESS RECEIV EET SIZE ORDER IET SIZE RECEIV	ed: <u>0.50</u> ed: <u>4x8</u>	
DESCRIPTION	NCR (Check Y/N)		÷	COMMENT	S	
SURFACE DAMAGE	YIN			*		
CORRECT FINISH	(Y) N					
CORROSION	Y (N)					
CORRECT GRAIN DIRECTION	(Y) N		- 10.75			
CORRECT MATERIAL PER M-DRAWING	N	HSTON	1 4240			-
CORRECT THICKNESS	(Y) N					
PHOTO REQUIRED	Y (N)	1.1.1.	14 - 53521			green - Those was come
CORRECT REF # TO LINK CERT	1	Heat +	FOODE			
CORRECT MATERIAL IDENTFICATION	N					
CORRECT M# ON THE MATERIAL	N					
DOES THIS MATERIAL REQUIRE	5					
ENGINEERING SIGN OFF	YO	/			-	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N					
					•	
CUT SAMPLE PIEC	E OF MA	TERIALA	ND PREFO	RM A HARDNE	ISS CHECK.	
20	REC	ORD RES	ULTS BEL	DW.		
		HRC	HRB	DUR A	DUR D	I WYES
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE					-	
HARDNESS / DUROMETER READ	ING			<u>i</u>	1	
	teste	rs located in	the Quality C	office .		

QC 18 INSPECTION	ASSESSMENT OF THE PROPERTY OF THE	ENGINEERING SIGNOFF (if i
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-FEB 1 4 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

H::FORMS\Quality Assurance\approved QA\MRIF Material Receipt Inspection Form revD

COLLOCATED 81-2294

METALLURGICAL TEST REPORT

495614 mm 1873 6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

North American Stainless Canada Inc. 740 Imperial Road North Gielph, ON NIK 123

Mall To

C

Certificate: 231861

Customer: 007035 501

Ship To:

Date: 10/26/2016 Bteel: 304 Finish: 28

Pages

Corrosion: ASTM A262/15 A/180Bend-OK

MAS ORGER! PN 0069821 14

781026

Your Oxder!

STAINTEES STEEL COLL, C.R. AMERALED & DICKLED, UNS 30400
ASTM A240/15b, A480/15, A666/15; ASME SA240/15, SA480/15, SA666/15
CHEM CNEY ON FOLLOWING ASTM: A276/15, A479/16, A484/15, A312/16
CHEM CNEY ON FOLLOWING ASTM: SA312/13, SA479/15, A484/15, A312/16
AME SSA37 XMRK; MIL-8-5059D AMENDS (X CROME PERA)
NACE NR0178/160 15136-3:2009 A, WRCES QUENCHED DESCRIPTIONS

emelted a Manufactured in the USA; Mat'l is DFARs Compliant No weld rapairs. steel Making Process: EMP, AOD, & Cont. Casting Product Mfg.by & Quality Mgt.bys. in Conf. v/180 9001 Material is Free of Radioactive Contemination Mat'l is Free of Mercury Contamination. EN 10204:2004 3.13 NOMS 1 & 2 Compilant

Chemical Analysis per Astw A751/14s hab Acoreditation Bureau, 180/x80 17015, Cartificates L1313 -----Length----- Mark Pieces Commodity Code 74261496 COLL 20,720 Weight 48.0000 skid # Thiokness Width .0480 03088E B Coll # Product Id 03088E B

.0010 36 .0390 ES(Spain) US(United States) ZA(South Africa) JP(Japan) 8.0190 NX % N NO % 3, 104 CM(Country of Melt) CO % ANALYSIS CHEMICAL

.0596

.3220 1.6575 .4923 18.0445 at T .0650 .2470 SI % 20 Š 80

PROPERTIES MECHANICAL

10.00 Oxadn No. Tail 84.00 88.00 Hard 12% YB 20C BLONG 52,12 200 100.16 KBI 910 E 6 03089R B Cot1 Product Ids 03088E B

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the lest methods used, the material meets the specifications stated. These results relate only to the items

Technical Dept. Mgr.

MAS

.0.2 386343

.0.9 YCS438\YCS441

096E

HEAT

CIER OUELLETTE INC.

SPECIFICATION CONTROL DRAWING

Ω

PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 SPECIFICATION:

FINISH:

DART M-NUMBER LIDENTIFIER 14 P 20 20 NONE 39 P 4 P 69 P 77 P FINISH UNPOLISHED No. 1 UNPOLISHED No. 2B UNPOLISHED No. 3B POLISHED No. 4B BUFFED No. 6 BUFFED No. 6 BUFFED No. 7

M304S TT GA #P PART NUMBER:

WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

NOM. THICK.

0.030 0.033 0.033 0.047 0.047 0.053 0.055 0.059 0.146 0.146 0.1369 0.1369 0.225 0.225 0.225 .0625 .0703125 .078125 .09375 .109375 .125 .126 .171875 (IN) 0.021875 0.021875 0.028125 0.03125 0.034375 0.0375 0.050 0.050 OAUGE CAUCE 
REV. D SCALE SHEET 1 OF 1 10.90.60 01.09.24 DATE COPYRIGHT @ 2001 BY DART AEROSPACE LTD his poculant shrintle we coverient, and a survice on his consus condition in the print have national on confusion to the up in any national on confusion to the up in the print have national on confusion to the up in the print have national on the print have national or confusion to the print have national or the print have national or the print have not been printed by the printed by DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. 8 CP SO REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A 304/316 SS SHEET DESCRIPTION M304S 15.01.06 NEW ISSUE APPROVED MFG. APPR. CHECKED DE APPR. DRAWN DESIGN 8 REV.

15.01.08 12.09.20

AJS MB

DEFINED FINISH OPTION (2N C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 28 (2N 85).

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ADDED GAUGES 0-7.

RELEASED

ECN 15-522 9

2015 FEB 04

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MATERIAL: M3045 DATE	30 G-A B 1 4 20	118			PO BATOK	NC 038983	6042190
MATERIAL CERT REC'D. QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	10 127 76 127 76 127			THICK!			
DESCRIPTION	NCR (Check Y/N)		ŧ		COMMEN	TS	
SURFACE DAMAGE	Y (N)				4		
CORRECT FINISH	(Y) N						
CORROSION	Y N						
CORRECT GRAIN DIRECTION	(Y) N						-
CORRECT MATERIAL PER M-DRAWING	(Y) N	Astm	A240	)			
CORRECT THICKNESS	(Y) N	10	7				
PHOTO REQUIRED	XN						
CORRECT REF # TO LINK CERT	(Y) N	Heat	# 49	94			
CORRECT MATERIAL IDENTFICATION	10 N						
CORRECT M# ON THE MATERIAL	(Y) N						
DOES THIS MATERIAL REQUIRE							
ENGINEERING SIGN OFF	YO						
DOES THIS REQUIRE AN							
EXTRUSION REPORT	YN	)					
CUT SAMPLE PIEC	= 05 144	TED:AL A	NID DD:	EFOR1	A A HARDNE	SS CHECK	
: CUT SAMPLE PIEC	E OF IMA	ORD RES	NIND FINE	ELOW	i		
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TYPE OF MATERIAL	-		1			2	
SIZE OF TEST SAMPLE	INIC		+				
HARDNESS / DUROMETER READ	ING	s located in	+ho 200	ity Offic		\$	programmy of the last of Assets State & C.
	tester	S located II	i ille Qual	ity Unit			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if it
:NSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	<sup>9-89</sup> FEB 1 4 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

SPECIFICATION:

MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240

FINISH:

0-123	0070004	642546	20 20 19 18 17	GAUGE 26 25 24 24 23
0.2500 0.2656 0.2813 0.3125	0.15625 0.171875 0.1875 0.2031 0.2188 0.2344	0.0703125 0.078125 0.09375 0.109375 0.125 0.125 0.140625	0.034375 0.0375 0.04375 0.04375 0.050 0.05625 0.0625	NOM. THICK. (IN) 0.01875 0.021875 0.025 0.025 0.028125 0.03125
6666		066 073 - 084 - 115 - 131 -	000000	THICKNESS  RANGE (IN) 0.0178 - 0.019 0.0199 - 0.023 0.024 - 0.026 0.027 - 0.029 0.030 - 0.032
e	et.			

MFG. APPR.
APPROVED DE APPR.

M304S

304/316 SS SHEET

SHEET 1 OF 1 SCALE NTS

REV. D

15.01.06

DRAWN DESIGN REV.

NEW ISSUE

DESCRIPTION

BY DS S

> 01.09.24 09.06.01 12.09.20

DATE

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL P/N WITH FINISH OTHER THAN 2B (ZN B5) REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A

MB MB

AJS 15.01.06

ADDED GAUGES 0-7.

GAUGE THICKNESS REFERENCE:

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER

PART NUMBER:

M304S TT GA #P

FINISH
UNPOLISHED No. 2D
UNPOLISHED No. 2B
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER IDENTIFIER 1P 2D 2D NONE 3P 6P 7P 8P

0

2015 FEB 04 ECN 15-522 9

RELEASED

North American Stainless Caunda Inc. 740 Imperial Road North Guelph, ON N1K123 #3130 NAS

165-30G48304-3B

# METALLURGICAL TEST REPORT

SALD TO

Mail Tor

Cayc1 ficate: 335855 1

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000 4940

Date: 9/22/2017 Stool 304

Paper

Corrosion: ASTM A262/15 A;180Band-OX Vintohe 28

STAINLESS STER! COIF, C.R. ANNEALED & PICKLED; UN ASTM A240016a, A480/16b, A666/13/ASME SA240/19, 8A4 DESCRIPTION 4500825594 Customer: 007036 501 PRODUCT Your Order

NAS OF GET! PN 0083329 06

CHEN CHUT ON FOLLOWING ASTM: A276/17, A479/77, A484 CHEN CHUT ON YOLLOWING ASM: 8A312/13, GA479/13 ANS SS11J XMXX, MIL-8-50S9D AMEND3 (X CROMN MXAS) NACE NMU179/150 13156-312009 A, RR0103/07/008765 MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS! Mat'l is gree of mercury Contemination. No weld repairs. From 10204:2004 3.1; Rous 1 & 2 Compliant.	Material is Free of Madioactive Contemination Stad Making Process RAF, AOD, & Cont. Cesting	Product Mig. by a Cuality Mgt. Sys. in Conf. wilso your product Mig. by a Compilant walted & Manufactured in the USA; Wet'l is DPARs Compilant
M M M M M M M M M M M M M M M M M M M	Matek	Prod.
30400 SM	440/13,84569/13 84/16, A312/16	(SD-A X KAG PERM

ReightLength Nark Pieces Communication	1	15,770 000	Lab Accountation march Chomical Analysis per ASIM A751/14a	CM(Country of Melt) ES(Spain) US(United States) And Country of Melt) ES(Spain) US(United States)		2875 . 0767 8.1240 .0285 .0010			
s skid # Thickness Width		9F A .0350 48.0000		NALYSIS CM(Country of Melt) ES(S	AN P. B. CR % CU *		178 .0490 18,1095 178	A MO	.3785
1 1 20 000	Product 14 Corr	01499F A 01499F A		CHEMICAL ANALYSIS		HEAT /	2559		

	Grain No.	10.00	
	rail	86.50	
	Mard	86.00	
	20C ,2% Y8 30C ELONG % Mard	53.69	
	.24 ¥8 30	\$2.00	
RTIES	UTS 20C	FT 102.08	
PROPE	40 - L		
CAL	Coll #	01499F A	
MECHANICAL PROPERTIES	Product Id# coil #	01459F A	•

NAS hereby or rillies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the spacifications stated. These results rolete only to the items tested and this report connot be reproduced, except in its entirely, without the written approval of NAS.

Dept. Mgr. Tochnical

KRIS LARK

9/22/2017

MATERIAL: Moloite DATE: FEI					PO BATOM	NC 032483,	<u>6042199</u>
MATERIAL CERT REC'D: 9 QUANTITY RECEIVED: 9 QUANTITY INSPECTED: 9 QUANTITY REJECTED: 9	1 p 12			, THICKN	NESS ORDER NESS RECEIN SIZE ORDER SIZE RECEIN	ED: <u>0.40</u>	2
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DESCRIPTION	(Ch	DR leck (N)			COMMENT	S	***
SURFACE DAMAGE	Y	IN	)		*		
CORRECT FINISH	(Y)	N		provi di Perengalanda di Amerika, e a sensi s			
CORROSION	Y	(N)		Way ( Park 1994 ) 1994			<b>4</b> 0.0
CORRECT GRAIN DIRECTION	(Y)	N			3		
CORRECT MATERIAL PER M-DRAWING	(2)	N	QQ-A-1	50/11	× 174		
CORRECT THICKNESS	(	N		7-1-			
PHOTO REQUIRED	Y	W	1 1				
CORRECT REF # TO LINK CERT	(X)	N	Heat#01	1008	2345/7		
CORRECT MATERIAL IDENTFICATION	W	N					
CORRECT M# ON THE MATERIAL	(V)	N					
DOES THIS MATERIAL REQUIRE	!	0	1				
ENGINEERING SIGN OFF	Y	(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(1)					
						*	
CUT SAMPLE PIEC					A HARDNES	SS CHECK.	
		REC	ORD RESULTS				
			HRC H	RB	DURA	DUR D	: WES
TYPE OF MATERIAL		-					
SIZE OF TEST SAMPLE	.:.	<u> </u>					
HARDNESS / DUROMETER READI		<u> </u>		<u> </u>			manager of an article property and a fig.
	<u>te</u>	esters	s located in the Qua	airty Office			

8	18 INSPECTION		ENGINEERING SIGNOFF (IT &
	INSPECTED BY:	DAS <b>11</b>	SIGNED OFF BY:
	DATE:	<sup>9-89</sup> FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

H::FORMS\Quality Assurance\approved QA\MRIF Material Receipt inspection Form revD

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DELEASE N 2009 -09- 10

REV. B SCALE SHEET 1 OF 1 09.07.13 01.06.08 DATE DART AEROSPACE LTD
HAWKESBURY ONTARIO, CANADA
DRAWING NO.
M6061T6S
SHEE COPYRIGHT © 2001 BY DART AEROSPACE LTD 6 FIRMS TO A COMMITTEE COMM DS СР TITLE 6061-T6 SHEET SPEC REFORMAT DWG. ADD B209 SPEC (ZN D8-1), REF PAR 08-020A THIS DOCUMENT IS PREVATE NOT TO BE USED FOR ANY DESCRIPTION 09.07.13 NEW ISSUE MFG. APPR.
APPROVED
DE APPR.
DATE OG ( CHECKED DESIGN REV.

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SPECIFICATION CONTROL DRAWING

3

QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET SPECIFICATION:

M6061T6S XXX

PART NUMBER:

 $\bigcirc$ 

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EG. 0.063" THICK SHEET = M6061T6S.063

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

XXX BY 4FT BY 8FT PREFERRED SIZE:

U

8



Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate Nr.: 89050631

01/1

Rev.: 0

1 von / of 2

Znelškijas, pach / candina to ISO 5001. 180/18 18049. ENIAS 9100, ISO 14001. NADCAP

Seite / page: Datum / date:

2017 05 18

Auftraggeber / customer:	Bestell Nr. / order no.; Datum / date:	C 73958 2017 01 27
	Außragsbest, Nr. / order confirm no.: Datum / date:	125470 2017 01 30
Warenempfänger / consignee:	Lieferschein Nr. / defivery note: Datum / date:	89060631 2017 06 30

Form! form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: [inch]: 0,040x48,00x144,00 /

Protoble (package) Technische Lieferbedingungen / techn. spec.; AMS-QQ-A-250/11, 08.1997 ASTM B 209 - 14 AMS-4027N, 07.2008 Cessna CMMP019, Rev. D. 09-07-01 Cessna CMMP025, Rev. V. 2-20-15

Sondervorschrift / special terms:

1286235 A286230

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01/0082345/7		0,40	-	0,15	-	0,80	0,04		1-		-
	spec. min.	0,80	0,70	0,40	0.15	1,20	0,35	0,25	0.15	0,05	0.15
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Lat/No.	temper	direction			[ksl]	Ficul 3		- 1	
Eddy-d-				spec.min.	42,0	35,0	10		 
				spec.mex.	-	-	-		
3212/01	76	LT	5	from	49,2	43.2	13		
3212/01	76	LY	No. Worlds	to	49,5	43.4	13		

Siegeverzuch: OK. / Transverse bend test: OK. Maßkontrolle: OK. / Dimensional Check: OK.

Obertiäche: OK. / Surface Inspection: OK.

AISAG rolling Grabh, Poelfach 32, A-5282 Rembelen, Osterreich - <u>kolor.antsc.Ri</u> ArlAG rolling Grabh, P.O. Box 32, A-5282 Rensholen, Austria - <u>waar.smag.at</u>

MATERIAL M2024135.		oj.	BATCH NO	0 <u>38483</u> k	221
MATERIAL CERT RECID.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	<u>.</u>	THICKNESS THICKNESS SHEET SIZE SHEET SIZE	RECEIVED	1040 4X12	
		14.)			
DESCRIPTION (C/	DR reck (N)	. 00	MMENTS		
SURFACE DAMAGE  CORRECT FINISH  CORROSION  CORRECT GRAIN DIRECTION  CORRECT MATERIAL PER M-DRAWING  CORRECT THICKNESS  PHOTO REQUIRED  CORRECT MATERIAL IDENTFICATION  CORRECT MATERIAL IDENTFICATION  CORRECT M# ON THE MATERIAL  CORRECT M# ON THE M# ON T	N N N N N N Heat# N N	187843B			
CUT SAMPLE PIECE O  TYPE OF MATERIAL  SIZE OF TEST SAMPLE  HARDNESS / DUROMETER READING	RECORD RESULT	S BELOW HRB D	JR A	DUR D	775 
	esters located in the S	Quality Office			

ରିଟି 18 IN	ISPECTION		ENGINEERING SIGNOFF (if
	PECTED BY:	DAS	SIGNED OFF BY:
	DATE:	9-₹€В 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

H: FORMS\Quality Assurance\approved QA\MRIF Material Receipt Inspection Form revD

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION: QQ.A.250/4 OR AMS-QQ.A.250/4 OR AMS-4037 OR ASTM B209 M2024T3S|.XXX

B

PART NUMBER:

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M2024T3S.063 .XXX BY 4FT BY 10FT

PREFERRED SIZE:

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED DE APPR. REV. B REFORMAT DWG, ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A A NEW ISSUE 09.07.07 DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M2024T3S

SHEE DESCRIPTION TITLE 2024-T3 SHEET SPEC COPYRIGHT © 2009 BY DART AEROSPACE LTD ns. poolward is remail and consistent was a survicious for general so occurric hart in a not fold feath reproduct occurric consumers for a new fold process without were a feather some consumers of the process without were a feather some consumers of the process of the consumers of the CP BY DS SHEET 1 OF 1 SCALE NTS 01.09.24 DATE 09.07.07 REV. B

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# #3118 . FEAL-040412202418 147580 47580

SHIP TO:					1	rentwoo	ALL d Worl hone: IFIEL	(800) 38 (800) TES	02.00, V 57-2586 TRE	// NA 992 B	15	P.
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3298 LB		CS EST.	200358	5		(1,01601	100	(1219.2	MONT			
VAMS 4037 CMMP 011 Test Code: 159	9/RevD	£ 282	) <sup>(()</sup> (	CMM	P 025/F4 Test Re			,	igim o	209/Rev	Melted In	USA
Lot: 18754388	Gara	K 202										
(ASTM ES/865) (EN 2002-1) Temple: To	Wiber	Dir / #	Tests Min:Max	a 84	itimate K 6,8 : 67. 461 : 461		45.3	(81 (MPA) 45.5 : 314)	1	iongstier 8.B : 17	.3 .3	
								-	v	28		OTHER
ASTM E1261	SI	FE	CU	MN	MG	CR	ZN	ጥ በ.02	0.01	0.01	TOT	0.06
Chemistry: Actual(wt%)	0.07	Q.17	4.6	0.62	1.3	0.01	0.12	0.02				
Total act on the					ALLOY I	JWITS						
							STANSON CO.		v	7R	OTHER	MAX
	5!	FE	cu	MIN	MĢ	CR	ZN	71	v		-	
	5:	FE		*				0.00	0,00	0.00	EACH	0.05
2024	0.00	0,00	3.6	0.30	1.2	0.00	0.00	0.15	0.03	0.05	TOT	0.15
MAX(wt%)	0,50		4.9	0.9	1.8	Pernainde						
(Alternation of any	5.00			A		And them seems	50					



Trentwood Works - Spokene, WA 99215 Phone: (800) 367-2586

### CERTIFIED TEST REPORT

Serial Number 4440764

### CERTIFICATION

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

MATERIAL M606	t(ts). B 15 201	250W 120	)	PO BATOH N	CO38983/201210
MATERIAL CERT REC D	0,0		, THIC SHES	KNESS ORDER KNESS RECEIV IT SIZE ORDER IT SIZE RECEIV	ED W. 120
DESCRIPTION	NCR (Check Y/N)			COMMENT	8
SURFACE DAMAGE	YN			<u> </u>	and the appropriate for the first to the second sec
CORRECT FINISH	(Y) N				
CORROSION	YN				
CORRECT GRAIN DIRECTION	(V) N		10		
CORRECT MATERIAL PER M-DRAWING	(Y) N	QQ-A	-200/8		
CORRECT THICKNESS	(Y) N				The second section is a second
PHOTO REQUIRED	XN		1 - 7 - 7 - 7	2.00	
CORRECT REF # TO LINK CERT	(Y) N	Heat	£38568	0	the second secon
CORRECT MATERIAL IDENTFICATION	N				
CORRECT M# ON THE MATERIAL	(Y) N				410
DOES THIS MATERIAL REQUIRE					
ENGINEERING SIGN OFF	YN	1			
DOES THIS REQUIRE AN	6				
EXTRUSION REPORT	YN	)			
ΕΛου					
			10 55=505	AS A WARDNE	<u> </u>
CUT SAMPLE PIEC	E OF MA	TERIAL A	ND PREFUR	N A TANDIRE	00 0.120
	REC		ULTS BELO	OURA	DUR DU ME
	ļ	HRC	HRB	1 33.07	
TYPE OF MATERIAL	-			-	
IS ZE OF TEST SAMPLE				<u> </u>	
HARDNESS / DUROMETER READ	ING			<u> </u>	The second section of the section of the second section of the section of the second section of the secti
	teste:	s located in	the Quality Off	:CE	

QC 18 INSPECTION		ENGINEERING SIGNOFF (if
INSPECTED BY:	DAS	SIGNED OFF BY:
	9-89 FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

O ۵ A-225(6 CP 04.01.23

SCRIPTION BY DATE

DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA REV. C SHEET 1 OF 1 13.06.12 AJS ELEASE 2013 -07- 02 COMPLETE REFORMAT, ADDED T0610 & T0611.
ADDED AMS 4083 ASTM B210 & ASTM B241
ADDED MATERIAL TOLERANCE
ADD GA-AZ068 & GQ-A-Z268
NEW ISSUE TITLE 6061-T6 TUBING DRAWING NO. M6061T6T TITI-AJS DATE 13.06.12 CHECKED
MFG. APPR.
APPROVED
DE APPR. - D.DDD -DESIGN DRAWN EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058 PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING WHERE "D.DDD" = OD IN INCHES PER ANSI H35.2 🔼 M6061T6TD.DDDIWIT.TTT MATERIAL TOLERANCE: SPECIFICATION: PART NUMBER: < 0 O

# 6312-TAL-114114120R-V 7R4-219:

### Material Test Report

Manifest: 330665

Ticket: 5561100

Ship To:

Our Order: 439155 - I

Cust P.O.: 4500834118-RY003

Die: EH05672

Part: 100018933

Altoy Tempor: 6061 T6511

Description: 1.250 x .125

Print Date: 9/30/17

			Chemical Composition						Chemical Composition Maximum					
CastNum	<u>Şi</u>	Ec	<u>Си</u>	M/m	M2	Cr	Za	Ti	OtherFash	OtherTotal				
3B6580	0,60	0.19	0.22	0.04	0.83	0.06	0.01	0.02	0.05	0,15				

### Mechanical Properties

Strength ksi

Sample ID	Casti	Lot	Tost. Date	Ultimate Tensile	Yiold 2% offici	Etongation 2" gage length
428412	336580	A11	9/25/17	45,64	41,07	9.2

Applicable Specifications: ASTMB221-14

**ASTM B429** AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Abuminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Even Eng. Quality Assurance Menager

CERTIFICATE OF TEST CERTIFICAT D'ESAIS 0.73496customer order number number of commande du client

AC00005079

Page 02 of 02

Certification Date 25-APR-2017

Invoice Number T365756

DE PRÈCE	
PART NUMBER/NUMÉRO DE I	506255

	ACIER OUELLETTE	22 BOULEVARD J E SAINT JEROME QO
	SHIP TO:	SDY
55	ACIER OUELLETTE INC	22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6
506255	SOLD TO:	VENDU A:

SOLD TO:	ACIER OUELLETTE INC SHIPTO:	ACIER OUELLETTE INC.
VENDUA:	22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6	22 BOULEVARD J F KENNEDY SAINT JEROME QC J7X 4
Descrip	Description: 4140/4142 HR ANN BAR ASTM A322	Line Total: 426 LB
5/8 KU HEAT:	5/8 RD X 20' K/L HEAT: 75061935	
END-QUE	END-QUENCH HARDENABLAIII (JOMINI 7 AC) 1 2 3 4 5 6 7 8 9 56 56 56 56 55 55 54 53	10 12 14 16 18 20 51 49 47 45 44 44
4 7 4 7	39 37	
1 1 1 1 1 1 1 1		
IDEAL	IDEAL DIAMETER : 5.27 IN GRAIN SIZE :5 - 8	

STRAND CAST REDUCTION RATIO 221.8 TO 1 MATERIAL IS FREE FROM MERCURY CONTAMINATION NO WELD REPAIR PERFORMED ON MATERIAL MACRO: OK

Material did not come in contact with mercury while in our passession. Par les présentes, nous cortificat que le mandred courset par ce rapport rencentre les spécifications décrites estatut. The above data were transcribed from the manufacturer's Cortificate of Test allor verification for completeness and specification requirements of the information on the confident. All test from the orable of the assignment of the information on the confident. All test remains on a file adapta to examination. Alea information to the testination desired and research the statement of the complete southern and the statement of the confidence of the complete specification of control to specification of the protection of the protectio

JOANNE DESPRES

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

MATERIAL: M303K	30,250	-	PO BATOR N	03898360420
DATE: FE	B 1 5 ZUI8	-		
MATERIAL CERT REC D	05	THIO:	CNESS ORDERS	0.250
/ .	211	- THICX	(NESS RECEIVE	0.250
QUANTITY RECEIVED:	2 (/		T SIZE ORDERS	
QUANTITY INSPECTED:	7	_		/ / .
QUANTITY REJECTED:	<u> </u>	SHEE -,	T SIZE RECEIVE	-N/A
			87	
	NCR			
DESCRIPTION	(Check Y/N)		COMMENTS	
SURFACE DAMAGE	Y (N)			
CORRECT FINISH	(Y) N			No. of the last of
CORROSION	Y (N)			
CORRECT GRAIN DIRECTION	(V) N			
CORRECT MATERIAL PER M-DRAWING	(V) N Asta	1 A582		
CORRECT THICKNESS	(Y) N	7 100		
PHOTO REQUIRED	YN	1.0		and the second s
CORRECT REF # TO LINK CERT	(8) N Heat-	# 155W	<i>Y</i>	
CORRECT MATERIAL IDENTIFICATION	N O			
CORRECT M# ON THE MATERIAL	(Y) N			
DOES THIS MATERIAL REQUIRE				
ENGINEERING SIGN OFF	Y (N)			
DOES THIS REQUIRE AN				
EXTRUSION REPORT	YN			
				9
CUT SAMPLE PIEC	E OF MATERIAL	AND PREFORM	A A HARDNES	S UMEUN.
		SULTS BELCY	DUR A	DUR D T ME
	HRC	HRB	DUKA	20:1-
TYPE OF MATERIAL		1	1	
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READ	ING	L		
	testers located i	n the Quality Offic	e	

8	18 INSPECTION			ENGINEERING SIGNOFF (#
	NSPECTED BY:	DAS		SIGNED OFF BY:
	DATE:	9-89	FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Hi: FORMS/Quality Assurance/approved QA/MRIF Material Receipt Inspection Form ravD

8 PART NUMBER: PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)
SPECIFICATION: ASTM A582 EG. 0.75" ROUND BAR = M303R0.750 WHERE "D.DDD" = DIAMETER IN INCHES M303RID.DDD DIA. SPECIFICATION CONTROL DRAWING



2

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NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 EAST GHENT, KY 41045

METALLURGICAL TEST REPORT

Ship To:

Mail To:

6870 HIGHWAY 42 EAST

Date: 3/23/2012

Page

Steel: 303 Finish: CD

711845 Your Order:

NAS Order: PN 0017508 01

Corrosion

ASTM AS82/05 EN 10204 3.1, ASTM A484/10 ANS 5640U TYPE 1, QQS-7648 CONDITION A DESCRIPTION: Round Bar, Annealed, Cold Draw PRODUCT

EC. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION COMPLIES W/REQUIREMENTS OF DEARS BU DIRECTIVE 2002.95. REMARKS:

Mark Pieces Compodity Code 1 71464632 144.00 -----Length-----1,245 Weight Size .2500 Skid # Diameter Product Id BE4162 4

CM(Country of Mett) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANALYSIS CHEMICAL

The second line of the second

PROPERTIES MECHANICAL

Elng % 2"	97.21 110.42 32.93 23.50	
<b>5</b> *	32.93	
UTS	110.62	
.2YS KSI	97.21	
HB No.	R L 246.00	
0 1 0	a J	
Product Id	BE4162 4	

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC HESS

2/23/2012

MATERIAL MIOLS DATE FEB	15 201	18		PC BATCH NO	<u>(38983 ko42)</u> 12
MATERIAL CERT REC'D.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	18"		THICK SHEET	NESS ORDERED NESS RECEIVED SIZE ORDERED SIZE RECEIVED	1.00 N/A
DESCRIPTION	NCR (Check Y/N)		-	COMMENTS	
SURFACE DAMAGE	YIN	)		*	make approximation on the first transfer of the state of
CORRECT FINISH	(Y) N				
CORROSION	YN	)			
CORRECT GRAIN DIRECTION	N				
CORRECT MATERIAL PER M-DRAWING	(V) N	Astm	AIOX		
CORRECT THICKNESS	N (V)				
PHOTO REQUIRED	YN				
CORRECT REF # TO LINK CERT	Ø N	H902 #	=14/110		
CORRECT REF # 10 EINTOCATION	1	1 11			
CORRECT MATERIAL IDENTFICATION	(Y) N	,			
CORRECT M# ON THE MATERIAL					
DOES THIS MATERIAL REQUIRE	Y R	7			
ENGINEERING SIGN OFF	1	9			
DOES THIS REQUIRE AN	YA	1):			
EXTRUSION REPORT	1 · · · (-)	.)			
				*	SOUFOR
CUT SAMPLE PIEC	E OF M	ATERIAL AN	ID PREFORM	MA HARDNES	S U.T.E.U.S.
CO F SAIVIT EET 1.29	RE	CORD RESU	TIS DEFECT	•	
	1	HRC	HRB	DUR A	<u></u>
TOTAL OF MATERIAL					
TYPE OF MATERIAL		1			
SIZE OF TEST SAMPLE	ing H				the second section of the section of the second section of the section of the second section of the secti
HARDNESS / DUROMETER READ	testi	ers located in t	he Quality Offic	<u>e</u>	
	10011				

C 18 INSPECTION		ENGINEERING SIGNOFF (if
INSPECTED BY:	DAS	SIGNED OFF BYI
	9-89 FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

17 CLEASE

M1018-R D. DDD WHERE D. DDD = DIAMETER IN INCHES DIA. DIA. TOLERANCE +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.005 EG. 7/8" ROUND BAR = M1018-R0.875 PER ASTM A108 AS FOLLOWS: PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR MIL-S-7097 OR ASTM A108 SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 6.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL. SPECIFICATION: PART NUMBER: TOLERANCES:

CP 12.09.05 DS 01.06.12 BY DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
RHEE! B REFORMAT, ADD ASTM A108, ADD TOLERANCES
A NEW ISSUE DESCRIPTION 888 DESIGN
DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE
12.(

SCALE NTS SHEET 1 OF 1

1018–1025 ROUND BAR 1018–1025 ROUND BAR 100 ROUND COPPRENT BOTH BY LAND THE RESERVENT OF THE PROSENCE LTD. THE COCCUPIED THE PROSENCE OF THE P

12.09.05

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SPECIFICATION CONTROL DRAWING

9

CA 47950



48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

### CERTIFICADO DE CALIDAD/QUALITY REPORT

De acaerdo a /Made according to:

EN 10204/DIN 50049

3.1

N° CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN

Norma: EN 10277

49784

CLIENTE CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE

Delivery Note Nr.

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A 108

A	1018 RED. ESTIRADO 25,40 (1")	978	-0,051	137149	25,40
PAR-48569	1018 RED. ESTIRADO 25,40 (1")	998	- 0,051	141109	25,40
MDP-48737		1.052	-0,051	141112	7.94
OU-47949	1018 RED. ESTIRADO 7,94 (5/16")	1.010	-0,051	141114	17,46
OU-47949	1018 RED. ESTIRADO 17,46 (11/16*)	998	-0,051	141110	25,40
CA-47950 /	1018 RED. ESTIRADO 25,40 (17)	994	-0,051	140119	31,75
CA-47950	1018 RED. ESTIRADO 31,95 (1 1/4")	1,122	-0,051	141129	6,35
VI-48475	1018 RED. ESTIRADO 6,35 (1/4")			141279	25,40
PAJ-48144	1018 RED. ESTIRADO 25,40 (1")	1.996	-0,051	141280	28,58
PAJ-48144	1018 RED. ESTIRADO 28,58 (1 1/8")	1.012	-0,051		The same of the sa
PAR-48143	1018 RED. ESTIRADO 19,05 (3/4")	1.468	-0,051	141267	19,05
	1018 RED. ESTIRADO 25,40 (1")	2.992	-0,051	141269	25,40
PAR-48143	1018 RED. ESTIRADO 30,16 (1 3/16")	836	- 0,051	916831	30,16
PAR-48143		1.996	-0,051	141287	25,40
MOP-48145	1018 RED. ESTIRADO 25,40 (1")	3,994	-0,051	141414	25,40
MN-48543	1018 RED. ESTIRADO 25,40 (1")	1 3334	1 -1		

### Composición química de la colada / Chemical Analysis of Heat

MEDIDA	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% N	% NI	% P	% S	% Si
Measurement	THE RESERVE OF THE PARTY OF THE	40655 G	0,170	0.106	0,231	0,610	0,024	0,000	0,111	0,011	0,016	0,143
25,40 0,00	137149	42055 G	0,160	0.083	0.271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
25,40 0,00	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	42134 GM	0.170	0,000	0,290	0,710	0,000	0,007	0,000	0,020	0,008	0,160
7,94   0,00	141112	41994 AA	0.157	0.000	0,000	0,600	0,000	0,000	0,000	0,013	0,025	0,16
17,46 0,00		42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,17
25,40   0,00	141110	THE R. LEWIS CO., LANSING, MICH.	0,167	0,000	0,169	0,800	0,000	0,006	0,000	0,009	0,021	0,19
31,75 0,00	140119	41892 AG 41975 GM	The same of the last	0.000	0.300	0.710	0.000	0.008	0,000	0,022	0,012	0,18
6,35 0,00		and the same of the last owners where	0.160	0.083	0,271	0,650	0,018	0,000	0.099	0,011	0,010	0,17
25,40 0,00	141279	42055 G	0,171	0,000	0.000	0,600	0,000	0,004	0,000	0,009	0,023	0,19
28,58 0,00	141280	42186 AG	0.160	0,000	0,000	0,640	0.000	0,000	0,000	0,013	0,019	0,13
19,05 0,00	141267	41645 G	0,160	0,083	0,271	0,650	0.018	0,000	0,099	0,011	0,010	0,17
25,40 0,00		42055 G	and the last of th	0,000	0,000	0,758	0,000	0,000	0,000	0,016	0,021	0,22
30,16 0,00	916831	41411 AG	0,165	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,17
25,40 0,00		42055 G	0,160	0.083	0.271	0,650	0.018	0.000	0,099	0,011	0,010	0,17
25,40 0,00	141414	42055 G	0,100	0,000	10,471	1 41424			-			

Características mecimicas / Mechanical properties



ARANA Y LUPARDO, 2

www.calibradospradera.es

### CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Delivery Note Nr.

Norma : EN 10277

CUSTOMER

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

MEDIDA	OF	COLADA Cast Nr.	Resistencia Tens. strenght N/nure2	Lim elistico Tield point 0.2% Nimm2	Alargamiesto  Elongation  Lo=50 mm.	Durcia HB Hardness HB	Estricción %
Measurement	137149	40655 G	586,71	565,37	21,86	176,00	57,70
25,40		42055 G	623,30	596,92	28,40	200,00	57,39
25,40	141109			658,20	10,30	216,00	61,76
7,94	141112	42134 GM	The same of the sa	538,07	19,94	180,00	60,88
17,46	141114	41994 AA	560,10		28,40	200,00	57,39
25,40	141110	42055 G	623,30	596,92		180,00	58,35
31,75	140119	41892 AG	571,60	542,70	34,68		62,71
6,35	141129	41975 GM	670,93	637,52	8,10	190,00	
25,40	141279	42055 G	623,30	596,92	28,40	200,00	57,39
28,58	141280	42186 AG	541,06	518,47	14,54	156,00	56,31
And the second live and th	141267	41645 G	632,89	593,23	19,38	200,00	55,28
19,05		42055 G	623,30	596,92	28,40	200,00	57,39
25,40	141269	1000		525,36	21,06	165,00	59,43
30,16	916831	41411 AG		596,92	28,40	200,00	57,39
25,40	141287	42055 G	623,30		28,40	200,00	57,39
25,40	141414	42055 G	623,30	596,92	20,90	200,00	

### Califord Samedidal

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 25,40 (1")	137149	2
1018 RED. ESTIRADO 25,40 (1")	141109	2
1018 RED. ESTIRADO 7,94 (5/16")	141112	2
1018 RED. ESTIRADO 17,46 (11/16")	141114	2
1018 RED. ESTIRADO 25,40 (1")	141110	2
1018 RED. ESTIRADO 31,75 (1 1/4")	140119	2
1018 RED. ESTIRADO 6,35 (1/4")	141129	2.
1018 RED. ESTIRADO 25,40 (1")	141279	2
1018 RED. ESTIRADO 28,58 (1 1/8")	141280	2
1018 RED. ESTIRADO 19,05 (3/4")	141267	2
1018 RED. ESTIRADO 25,40 (1")	141269	2
1018 RED. ESTIRADO 30,16 (1 3/16")	916831	2
1018 RED. ESTIRADO 25,40 (1")	141287	2
1018 RED. ESTIRADO 25,40 (1")	141414	2

Observaciones BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Emzil: calpradera@calibradospradera.cs

www.calibradospradera.es

## CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

N° CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784 Delivery Note Nr.

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Norma : EN 10277

Productos Calibrados de scero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 23/11/2017

Firmado: Susum Fernández Directora de Calidad





MATERIAL MT-414C	5 201	R1.000			PO BATTO:	- NC <u>08</u>	38983 fs	14221
MATERIAL CERT RECID.  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	5	·	à.	THICK!	NESS ORDS NESS RECE SIZE ORDS SIZE RECE	EVED:	1.000 N/A	
DESCRIPTION (C	ICR heck '/N)		*		COMMEN	TS.		
SURFACE DAMAGE Y CORRECT FINISH CORROSION	(2)		W 684 W	1 1000 000000 0000000000000000000000000	*	11.000		
CORRECT GRAIN DIRECTION  CORRECT MATERIAL PER M-DRAWING  CORRECT THICKNESS	N	A322				• • • • • • • • • • • • • • • • • • • •		
PHOTO REQUIRED Y CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION Y	2 2 2	Heat:	#17	7569	7			
CORRECT M# ON THE MATERIAL (Y)  DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF Y	N							***************************************
DOES THIS REQUIRE AN EXTRUSION REPORT Y	(N)						* 1/1 to an and the state of th	
CUT SAMPLE PIECE O	F MAT	ERIAL A	ULTS B	ELCW		ESS OF	TEON.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	-	RC	HRE	3	DUR A	D	JR I	. NĒ
PARTICION DORIGINE LE CINE (DITO	testers !	located in	the Qualit	y Office				

QC 18 INSPECTION		ENGINEERING SIGNOFF (#
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE	<sup>9-89</sup> FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# CERTIFIED MILL TEST REPORT

Abov Steel Test Leb 45 Cut Street Abov, R. 68001-9013 (\$115, 403-4402 DAT 3405 (\$118, 463-4413 (\$24)

BELE TO								H	SHIP TO									
	a 4	E SE	Bitor Steel Coperation 10231Ct; Pal Avenue	ā_						96	Gran Seed Corporation Clarkette New Tree	TITER						
	8	R Park	DAR PAY, HO 1923?							3	Co hat, he sull	F 1						
Sela AS Defice Sela AS Oef Greine	(\$7.00) (\$1.00)	FF.	BAZARIT GARANA PI.	0 Ł	5	2000	HOSPPS		*	SAE 6163 ASTN A 304	E SH	SAE 6103 ASTN A 304-51, ASTN A 323-07	(/ 2	3				
The Description Book for Not West, 1,200), 25'0"	1.300); 25											V			-	I	Pare Day 10 -63.19.2	1
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INSU!	6.43	5	603	9200	62.0	¥.5		680 B	1980	6110	1100	300	4,000	0.628	D0003	1 0 mg	90.00	ž
				Schritch	T KG	BAMBIL		N3 AST	MA-28	CALDE	ATED FR	JOHENY KADÓBKABILITY USINS ASTIA A-258 GALDIGATED PRÓM CHEMICAL DI	14 TYOU			$\ \cdot\ $		
Hen North	55 P.	2 2		27 TL	:	# 3X	11 88 22	x, 8	= 2	* *	2 9 2 t	011 61 64 74 34 34 54 54 56	310 J12	1 2	316	SE ME 88 14 CF 52 311 415	# #	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
,	/						-	NO.	EPICAL TIET REPART	2174								
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177569												-	~ ~					i
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Customet   Eat COMPONITY   130 pt.   Customet   PO   Rem   Customet   PO   Rem   Customet   Po   Sassay   11142 tev ops   Sassay   11142 tev ops   Sassay	### STATE   ST	Customer PO Hen de Sessas de la 111 de Sessas de la 111	1142 tev 005	Custome fed from Eaton Steel figure Est figure AT TESP figure AT	tion 62517.  1 do	et flem   Hamt Descriptions	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1987 PECT PECT PECT PECT PECT PECT PECT PECT
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andles listed below were produced usin they carbon Angestere Angestere Angestere Angestere Angestere Sallkon Sallkon Sallkon Mickel Caronium Solybdenum Abunitum Copper Columbium Copper Readure Columbium Copper Readure Columbium Copper Columbium Copper Readure Columbium Copper	122244 1-3-Dec-2017 ng steef from 14:s1 177569 Issue	4 by ALTON \$TEEL and when the control of the contro	2 (ev 00)   2 (e	ted from Eaton Sted  thanteal  to the Per	Job 626577.  Description  Tight Strength  Percent Strength  Percen	th in PSI Unite  in PSI Unite  in PSI Unite  Lion in Arth  cop An Pabrentheit  sup An Pabrentheit  sup An Pabrentheit  Galde  Ga	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PECT PECT PECT PECT PECT PECT PECT PECT
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Created on 13-Dec/2817 Thomas Snobers, Corporate Metallurgist

422637

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DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, C	
CHECKED	APPROVED	DRAWING NO.	REV. A
11	1	M4140H-R	SHEET 1 OF 1
DATE		TITLE	SCALE
	05.02.21	4140 ROUND BAR	1:1
Α	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AIST 4140 H ROUND BAR

PER AISI 4140 OR ASTM A304-02/-A-434-BC/

-A193-03-GRADE-B7 /-A29-03/-A322-91 OR

UNS # - 641400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 Ksi MINIMUM YIELD TENKILE STRENGTH = 66 Ksi

WHERE D. DDD : DIAMETER IN INCHES M4140H-R D.DDD PART NUMBER:

EG. 78" ROUND BAR = M4140 H-RO. 875



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### MATERIAL RECEIPT INSPECTION FORM

material: <u>MT-41</u> 0 date: <u>FE</u>	400t-R0.66 B 15 ZU18	<u>15</u>	PO BATTOH	NC038983/504	1221
MATERIAL CERT REC D	145 90'' 90''			/ 11	
		e .			
DESCRIPTION	NCR (Check Y/N)		COMMEN	TS	
SURFACE DAMAGE	YIN		*		
CORRECT FINISH	(Y) N				
CORROSION	YN	The second of th			
CORRECT GRAIN DIRECTION	(2) N				
CORRECT MATERIAL PER M-DRAWING	(X) N, A7	9			
CORRECT THICKNESS	(Y) N				
PHOTO REQUIRED	YOU	1.4-1.0			
CORRECT REF # TO LINK CERT	ON HOW	750619	<u> </u>	productive afficient according to the set of the sequence (). If	
CORRECT MATERIAL IDENTFICATION					
CORRECT M# ON THE MATERIAL	(Y) N			440 ( 60	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (Q)		and the second s		
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)				
CUT SAMPLE PIEC	E OF MATERIA	LAND PREFCR	M A HARDNE	SS CHECK	
CO! SAMPLE FILO	PECORDE	RESULTS BELOV	V		
	HRC	HRB	DUR A	DUR I	ΛŒ
TYPE OF MATERIAL				:	
ISIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READI	NG T				
		d in the Quality Offic	ce	9	

QC 18 INSPECTION	ENGINEERING SIGNOFF (if )
DAS INSPECTED BY:	SIGNED OFF BY:
DATE: 9-8FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

. .



DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, C	
CHECKED	APPROVED	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE	05.02.21	TITLE 4140 ROUND BAR	SCALE 1:1
А	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140 H ROUND BAR

PER AIST 4140 OR ASTM A304-02/-A-434-BC/

-A193-03- GRADE-B7 / (A29-03 X A322-91 OR

UNS # - 641400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 Ksi MINIMUM YIELD TENKILE STRENGTH = 66 Ksi

M4140H-R D.DDD WHERE D.DDD : DIAMETER IN INCHES PART NUMBER:

EG. 7/8" ROUND BAR = M4140 H-RO. 875



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## CERTIFICATE OF TEST CERTIFICAT D'ESAIS

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00005079 PART NUMBER/NUMÉRO DE PIÈCE Page 01 of 02

Certification Date 25-APR-2017

Invoice Number T365756

506255

SOLD TO:

ACIER OUELLETTE INC

SHIP TO: EXPÉDIÉ À: ACIER OUELLETTE INC.

VENDU A:

22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY SAINT JEROME QC J7Y 4

Description:

4140/4142 HR ANN BAR ASTM A322

ASTM A304 05

EN 10204 3.1 04

5/8 RD X 20' R/L HEAT: 75061935

ITEM: 506255

Line Total: 426 LB

Specifications:

ASTM A322 07 V ASTM A29/A29M 11

ASTM A322 13

ASTM E112 ASTM E381 SAE J422 ASTM A304 11

ASTM A255 ASTM A304 02

CAT 1E0024

ASTM A322 91

CHEMICAL ANALYSIS

-------NI CR MO SI S P MN 0.86 0.16 C 0.23 0.026 0.25 0.007 0.97 0.40

NB AL SN ÇÜ 0.002 0.002 0.023 0.01 0.21

RCPT: R977496

COUNTRY OF ORIGIN : USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Ales informations ci-haut-mentionnées sont results qui certificat d'essais du manufacturier après vérification de l'état complet des specifications inscrites sur lo certificat. We hereby certify that the material covered by this report will meet the applicable requirements described berein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par co rapport

rencontre les spécifications dourites delmut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a feloxy under foderal statutes. /Les informations fausses, fictives ou finadaleuses en rapport avec le résultat des casais sont purassables en verta des lois fédérales.

Material did not come in contact with mercury while in our possession/Par les présentes, nous cartifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

JOANNE DESPRES

Lengeren

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESAIS

CUSTOMER ORDER NUMBER NUMERO DE COMMANDE DU CLIENT

AC00005079 PART NUMBER/NUMERO DE PIÈCE Page 02 of 02

Certification Date 25-APR-2017

Invoice Number T365756

20

506255

SOLD TO:

56

ACIER OUELLETTE INC

56

SHIP TO: EXPÉDIÉ À: ACIER OUELLETTE INC.

VENDU À:

22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY SAINT JEROME QC J7Y 4

4140/4142 HR ANN BAR ASTM A322 Description:

56

56

5/8 RD X 20' R/L

Line Total: 426 LB ITEM: 506255

75061935

END-QUENCH HARDENABILITY (JOMINY - RC)
1 2 3 4 5 6 7 8 18 16 9 44 45 49 53 55

56 28 24

37 39 42

56

IDEAL DIAMETER : 5.27 IN GRAIN SIZE :5 - 8

REDUCTION RATIO 221.8 TO MATERIAL IS FREE FROM MERCURY CONTAMINATION

NO WELD REPAIR PERFORMED ON MATERIAL

MACRO: OK

The above date were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results romain on file subject to examination. /Lex informations ca-haut-mentionnées post transcrites du cerdifical d'essais du manufacturier après vérification de l'état complet des specifications inserties our le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut

The willful recording of false, fictivious, or frauduless statements in connection with test results may be punishable as a felony under federal statutes. Alea informations fausses, fictives on freuduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession/Per les présentes, nous certifions que le unitériel convert per ce rapport rencontro les spécifications décrites cibaut.

JOANNE DESPRES me perspecies

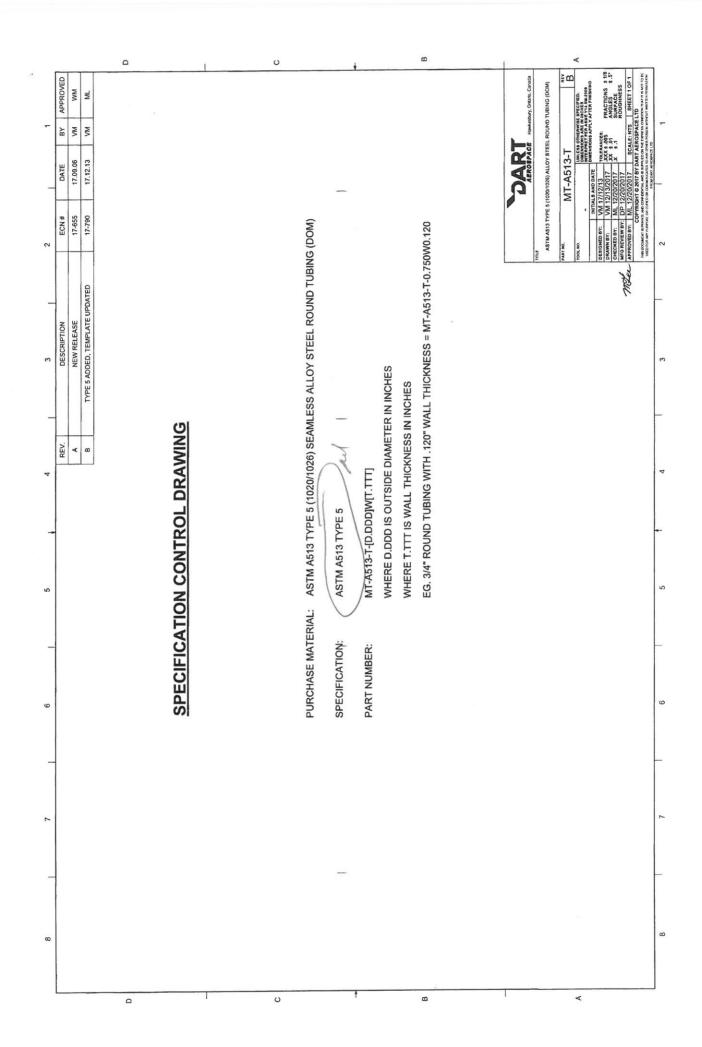
MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL MT-A5 DATEF				085		PO BATOR	NC 0389	83 /50 8040215
MATERIAL CERT REC D. 2 QUANTITY RECEIVED: 2 QUANTITY INSPECTED: 2 QUANTITY REJECTED: 2	313				HICKN	NESS CRDE NESS RECEI SIZE ORDE SIZE RECEI	VED: <u>WO.C</u> RED: <u>N/</u>	85
	NC.	 ?						# 1 - <b>**</b>
DESCRIPTION	(Che Y/N	ck		•		COMMEN	TS	TALL SOME MARKET AND ADDRESS OF THE
SURFACE DAMAGE	YI	N)				4		
CORRECT FINISH	(7)	N						
CORROSION	Y	(N)						-
CORRECT GRAIN DIRECTION	(2)	N						
CORRECT MATERIAL PER M-DRAWING	(X)	N	Astm	A51-	3 74	pe5		
CORRECT THICKNESS		N						
PHOTO REQUIRED	Υ (	(N)	1		1100	-0		The same of the same of
CORRECT REF # TO LINK CERT	(Y)	N	Heat	-13C	147	2	manager of advanta comments and the second	
CORRECT MATERIAL IDENTFICATION	10	N						
CORRECT M# ON THE MATERIAL	M	N	<u> </u>					
DOES THIS MATERIAL REQUIRE		$\wedge$						
ENGINEERING SIGN OFF	Y (		<u> </u>					
DOES THIS REQUIRE AN		0	į					
EXTRUSION REPORT	Y	(N)	<u> </u>				- 1 10 4	-
							4	
CUT SAMPLE PIEC	FOF	MA	TERIAL AN	ID PRE	CRM	A HARDNE	ESS CHECK	
OU: SAIVITEE 1 120	R	FO	ORD RESU	JLTS BE	LOW			
	<u>``</u>		HRC	HRE		DURA	DUR. I	A5
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE							-	
HARDNESS / DUROMETER READ	ING							
	tes	sters	s located in t	he Quality	Office			

ENGINEERING SIGNOFF (#
SIGNED OFF BY:
8 DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received of



223 TIS

**Material Test Report** 

Date MTR No. 4/30/2016 0000056608

7953 Washington Woods Or., Dayton, OH 45459

Phone: (937)573-4675 Fax (702)926-4129

TEST CERTIFICATE ACC TO DIN 50049 53.1 B/EN: 10204: 3.1

Customer:

Part Number 87-15955-17

PO Number:87-15955

Description: A513T5-14; SRA; DOM; Grade=1020; Category=CARSON WELDED; Round; OD=0.750"; ID=0.584"; (W7=0.083"); Debujred; Length=240" to 286"

Product: TUBE

Ends: Deburred

Heat No: 15C1472

Store Grade: 1020

un That u	DIMENSIONS	· · · · · · · · · · · · · · · · · · ·	TOLE	RANCE		
**** ****		N	-VE	+VE	MOU	
OD	19.050	0.750	0.0000	0.0050	IN.	1
ID	14,834	0.584	0.0050	0.0000		6,0
WY	2.108	0.083	0,0000	0.0000	IN ]	L.,-

	QUANT		
NUMBER !	METER	FT LV	VEIGHT TON
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NUMBER 1 6,096,000 - 7,315	200 MM 240.0	200 - 268.000 IN	

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ELEMENTS	MOM	MIN	-MAX +	1000	LKOUUC
Carbon (C)	%	0.1800	0.2300	0.1900	
Munganesa (Mn)	%	0.3000	0.6000	0.4300	
Silicon (SI)	96	1	1	0.0170	
Aluminum (AL)	% 1		i	0.0450	
Phosphorus (P)	1 %	1	0.0350	0.0120	
Suffur (S)	1 %	- !	0.0350	0.9100	i
Chromium (Cr)	%	1	- 1	¥ .	1
Nickel (Ni)	%	i	,	-	i
Molybdenum (160)	%		1		
Vansdum (V)	96			1	1
Copper (Cu)	%	i	- 1	<b>7</b> . ]	1
: Columbium (CB)	1 %	1	ŀ	. 10	
Calcium (Ca)	1 %	i	1	7	:
Titanium (Ti)	% (	į.	1	1	ļ
(Nitrogen (N)	1 %	[	1	\$	ļ.
Boron (B)	1%		ĺ	3:	
Zirconium (Zr)	96	1	1	Ś	1

	MICHIN	WHINNEY LLA	Carlette I torte	P
	Y.S Pal	U.T.S Pai	% E	HARONESS HRB
MIN	55,000	65,000	10.00	76.00
MAX	67,630	76,010	20.00	60.00
Tensile	Orientation: Spac Type: Width (MM):	Maria I Salan Maria	16	— — <del>-</del>
Canda	ARITRI frameri			

Remarks:

100% EDDY CURRENT TESTING- E309

: PASSED

FLATTEMING TEST

: 2/3% OF OD 1/3% OF OD PASSED

FLARING YEST

Antimony (Sb)

: 15% OF ID PASSED

STRAIGHTNESS

: PASSED (1/1000 MW)

Remarks:

Melted In; INDIA

Produced in: INDIA

n; INDIA
Product is free of weld repair and has not come in contact with Mercury or any of its components.

We hereby Certify that the material described above conforms to Specification and Purchase Order.

Bell Johnst

Bill Johnston

Quality Co-ordinator

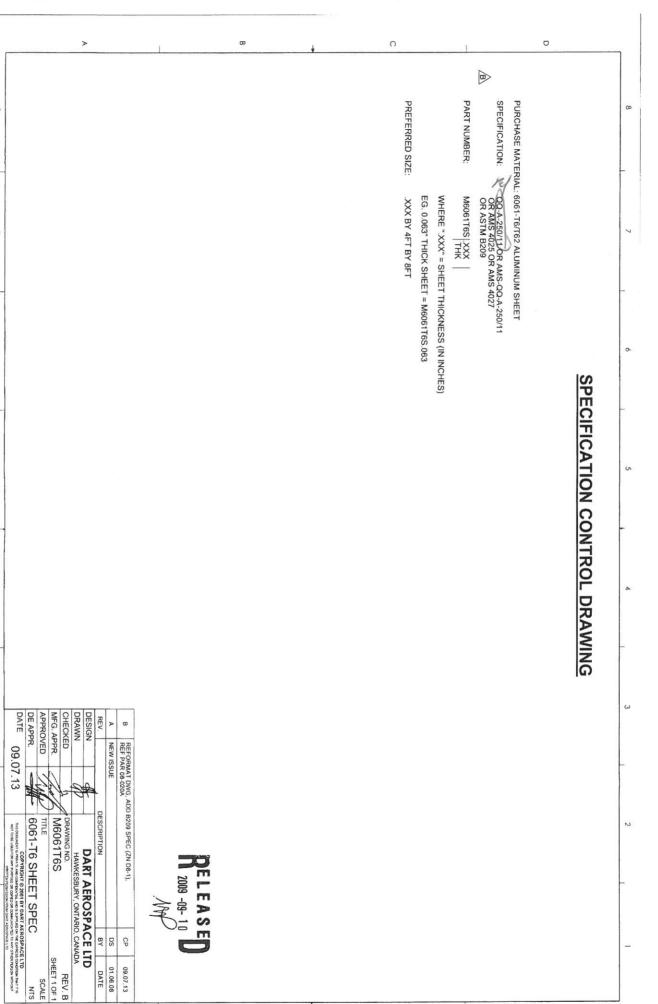
Any questions, Please email: TestReports Tearis-lic.com

#### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606 DATE.	165.0 EB 1	06:	3			PO BATON	NC 038983	\$04220
MATERIAL CERT REC'D. QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	602				THICK SHEE	NESS RECE T SIZE ORDE	RED: 0.6  VED: <u>0.6</u>  RED: 4X (  VED: 4X (	3
DESCRIPTION	NCR (Chec Y/N)	k !				COMMEN	TS	
SURFACE DAMAGE	YI	7				4		VIII 19
CORRECT FINISH	(Y)	V						
CORROSION	Y	()			\			
CORRECT GRAIN DIRECTION	(7)	V						
CORRECT MATERIAL PER M-DRAWING		V C	2(2-7	4-25	0/11			
CORRECT THICKNESS	(Y) 1	V		/				
PHOTO REQUIRED	Y	V	. /					
CORRECT REF # TO LINK CERT	(Y)	VI	est	-0	100	720911	5	
CORRECT MATERIAL IDENTFICATION	(2)	N			/			
CORRECT M# ON THE MATERIAL	(Y)	V						The statement is seen or seen
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	9						
DOES THIS REQUIRE AN		0						
EXTRUSION REPORT	Y   C							
CUT SAMPLE PIEC		COF	RD RESL	JLTS E	BELOW			
		H	RC	HF	RB .	DURA	DURD	I WEE
TYPE OF MATERIAL	-						<u> </u>	
SIZE OF TEST SAMPLE							1	
HARDNESS / DUROMETER READI	NG [						<u> </u>	
	test	ers lo	cated in t	he Qua	lity Offic	9		

(a) (c	18 INSPECTION		ENGINEERING SIGNOFF (扩造
	INSPECTED BY:	DAS	SIGNED OFF BY:
	DATE:	<sup>9-89</sup> FEB 1 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





#### Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

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Zertifizing rooth / certified to ISO 9001, ISO/TS 16649, ENIAS 9100, ISO 14001, NADCAP

Auftraggeber / customer.

Bestell Nr. / order no.:

C 70532 2015 05 20

Warenempfänger / consignes:

Datum / date: Auftragsbest, Nr. / order confirm no.:

693391 2015 05 21

Lieferschein Nr. / detrvery note:

85150377

Datum / date:

Datum / date:

2015 11 30

Produkt / product

Form / form: Sheet

Werkstoff / material: 6061

Zustand / temper: T6

Dim. / cim.: [inch]: 0,963x48,00x96,00

Bedingungan Llama

Technische Lieferbedingungen / techn. spec.;

AMS-QQ-A-250/11,08.1997 ASTM B 209 - 14

AMS 4027N, 07.2008 Cessna CMMP019, Rev. D. 09-07-01 Cessna CMMP025, Rev. V, 2-20-15

Sondervorschrift / special terms:

AB-Pex end-frem.	Shell ou follos Louno I part	Gugo Nr.	Westerful gatheria	Kollo pacitao	Gouleht notto weight not	stk.
06	61011/01/00	01/0072091/5	6061	6933910027	2409,612 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910028	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6081	8933910029	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910030	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910031	2416,226 lbs	65
06	61011/01/00	01/0072091/5	6061	6933910032	2416,226 lbs	85
06 3	61011/01/00	01/0072091/5	6061	6933910033	1560,847 ibs	55

Gasse No / cost no.	mzeorial										
01/0072091/5	6061	s	Eq.	۵	Mn	Mo	c	2n	71	Others Each	Cohera
/	spec min.	0.40	-	0.15		0.80	0.04		-	•	-
w.	spec. max.	0.80	0,70	0.40	0.15	1,20	0,35	0,25	0,15	0.05	0,15
	ocust	0,48	0,44	0.24	0,12	68,0	0.18	0,06	0,03	0,02	0.03

SNr/Les	Zustand	Richtung	Tests		ហាន	YS	AZ"		
LotiNo.	temper.	direction			(Ital)	(ksl)	[%]		
				spec.min.	42,0	35,0	10		
				spec.max.	•		•		
61011/01	T6	LT	8	from	48,6	42,4	13		
51011/01	T6	LT		to	49.0	42,9	15		$\top$



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DOTFMEN (1801) FORTSMEN TO 1910 19061, 1904/15 16449 FIXAS \$100, ISO 14001 HADCAP

Datum / date:

2015 11 10

Sometige Prüfungen / other tests.

Blegeversuch, OK, / Transverse bend test: OK. Maßkontrolle: OK. / Dimensional Chock: OK.

Obertifiche: OK. / Surface inspection: OK.

Select Leebangers

Die Dimensionstoleranzen entsprechen ANSI XXX / As stendard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Ver bestätigen, dass die gesamte Liefenung unter Einhaltung und sowert oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichungen, Aufträge) hergestellt und geprüft wurde.

Ods Chalditamanagementsystem, erfüllt die Anforderungen der AUK/SA/001-3.

Das Chalditamanagementsystem, erfüllt die Anforderungen der AUK/SA/001-7.

Hergestellt, kontrolliert und geprüft nach Hawker Beechonit HBIFSAS/PART3/0771

Agusta Wastland Genetunigung Lleferantennummer V21275 Issued under Airbus Approval No. 30272. results values where approved the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract

Order relevant thereto The Cuelity Managment System arrangements in respect of these supplies comply with the

Manufactured, inspected and lested according Hawker Beachdraft HSIFSAS/PART3/0771 Agusta Westland approval supplier code VZ1275

Es wird bestätigt, dazs die Lieferung gepreit wurde und den Vereinbarungen bei der Bestellung entspacht. We hereby derefy ihat the material described above has been tested and complies with the terms of the order contract.

Nortuschverständiger i tactery specialist E-Mail / o-crait oset idempfer@ameg 31 Klampler Josef

Horstellarland: Outerraich / goods empire. The goods are of Austrian origin.
Masschmell emiati. - Çultig ohne Unterschilfe / Autometed - velid verhout being signed.

